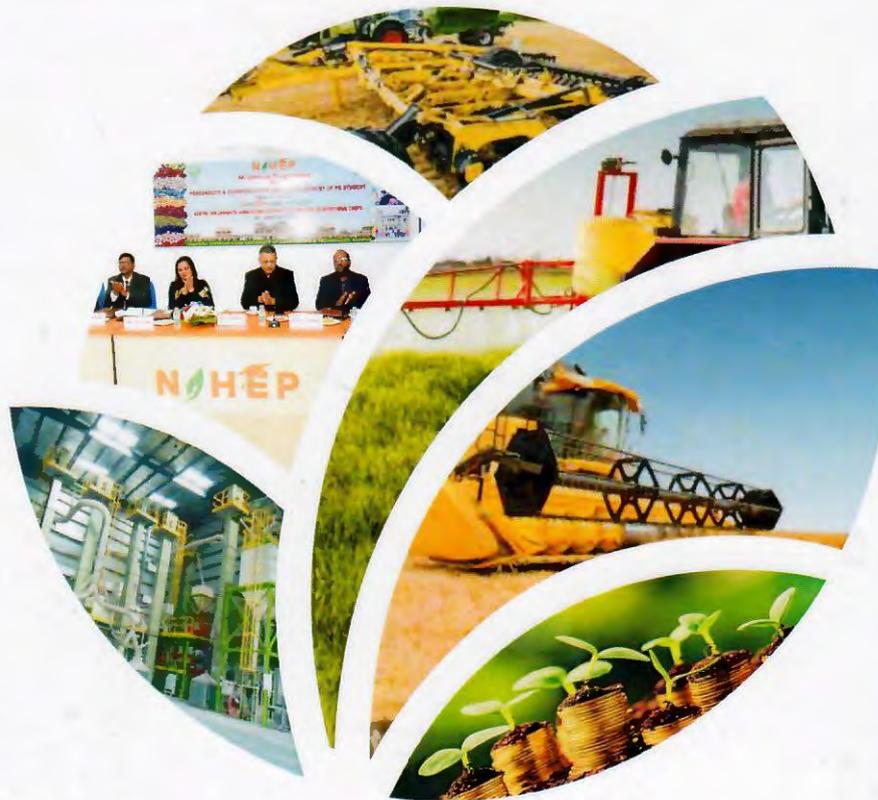




Brain Storming Session  
on  
**Entrepreneurship Development for  
Quality Seed Production of Nutritional Crops**

Sponsored under  
NAHEP-ICAR, New Delhi & World Bank Funded Project  
**CAAST-NC: Seed Production Component**

23<sup>rd</sup> January 2020



**Chandra Shekhar Azad University of Agriculture & Technology  
Kanpur - 208 002 (U.P.)**

## ABOUT THE INSTITUTION

Chandra Shekhar Azad University of Agriculture & Technology, Kanpur is the leading agricultural institution of the country. University has strong foundation laid as early 1893.

It was a pioneering Agriculture College, catering to the needs of agricultural education in pre-independence India.

This institution continued its journey in independent India to achieve its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to the status of University in March, 1975. It has been serving the nation since last 114 years through its research, education and development of technology for farmers of the country. The university has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research needs of two agro-climatic zones of state of Uttar Pradesh namely, South-Western Semi-Arid and Central plain zones covering 22 districts of Uttar Pradesh with its seven colleges out of which four Colleges (Agriculture, Horticulture, Agro-forestry and Home science) are located at university HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. It has led to the evolution of individual ecosystem-specific agro-techniques. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture & Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

## CAAST-NC: SEED PRODUCTION COMPONENT

The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project- Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national /international/private organizations and scaling up of capacity building of M.Sc.(Ag.) & Ph.D. Students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for the quality seed production of nutritive crops.

## ABOUT THE BRAIN STORMING SESSION

The varied climate in India ensures the availability of nutritious grain and vegetables of excellent quality. India ranks first in the world's total pulse and 2<sup>nd</sup> in vegetable production. Despite, India is the importer of many pulses, in the globally. Quality seed is the basic and crucial input for sustained growth in agricultural production. Quality seed act as a catalyst for realizing the potential of all other inputs in agriculture. After the release of varieties, seed multiplication is most essential and prerequisite activity for ensuring the continuous availability of quality seeds of improved varieties to farmers at affordable prices and appropriate time. Quality seeds are being made available to the client by public and private sector. About 55 per cent of the total available seeds is being produced by private sectors which reflects a ample scope for start-up in the area of quality seed production and seed business.

It is a well-known fact that there is a mismatch between the number of agricultural postgraduates passing out each year to the availability of jobs in the sector. To make the budding human resources job providers rather than job-seeker; entrepreneurship is the only way out. To be a successful entrepreneur, one has to have a new idea. Thus, there is a need for innovation in Agriculture sector. Traditionally, Agriculture is seen as an old technology industry which needs to be reinvented in innovative ways. Being innovative is an important quality for a business/enterprise, especially when it faces strong competition or operates in a rapidly changing market. With the changing paradigm,



skills of the agricultural post graduates must also change and develop to meet the management demands of the enterprise. Managerial skills are very much essential to be successful in their lives as an entrepreneur or as an employee. In every sector, there are a set of skills which play an important role for its betterment or in other words leading to result based outcomes. The proposed brain storming session has twin expectation 1) equip the postgraduate students with necessary knowledge to become entrepreneurs and 2) develop entrepreneurship skills among post graduate students.



### TARGET GROUP

M. Sc. and Ph. D. Students of Chandra Shekhar Azad University of Agriculture and Technology, Kanpur.

### COURSE CONTENTS

This includes basic and applied knowledge for Entrepreneurship development such as knowledge about innovations & start up, government initiatives and support for Agri entrepreneurship, soft skills development, enhancing learning habit and business model. This course aims to identify the problems with innovative techniques, team work to validate hypothesis, refine the business plan and finally help in commence of seed-agri-business.

### KANPUR CLIMATE DURING SESSION

Kanpur has a hot semi-arid steppe climate. The day temperature during third week of January is expected not to exceed 25°C and night temperature not drop below 10°C. The cloud cover is mostly clear and there is no precipitation during third week of January.

Light woollen clothes are generally advised.

## OBJECTIVE

- Awareness about innovativeness and seed entrepreneurship.
- Transformation in seed entrepreneurship and business.
- Improve efficiency and effectiveness of post-graduate students



## PROGRAMME SCHEDULE

09:00	<b>Registration</b>	
09:30	Welcome/ Get-together	
09:45	Inauguration Session	
10:45	High Tea	
<b>Technical Session</b>		
11:00-12:00	Innovations & Start up : A prerequisite for Seed-Agri-entrepreneurship	Dr. Rohini Dutta, Manager, Bio incubator. IIT, Kanpur
12:00-13:00	Government Initiative and support for Agri-entrepreneurship	Dr. Nikhil Agarwal, Chief Executive Officer IIT, Kanpur
13:00-14:00	Lunch	
14:00-15:00	Quality seed production of Nutritional crops: A profitable entrepreneurship	Dr. Vikram Singh Associate professor SHUATS, Naini, Prayagraj
15:00-16:00	Entrepreneurial motivation through Vocational Guidance & Counselling	Dr. L. K. Singh Ex-Divisional Psychologist
16:00-17:00	<b>Wrap up of the session</b>	



Patron in Chief

**Dr. S. Solomon**  
Hon'ble Vice Chancellor

Chandra Shekhar Azad University of Agriculture and Technology, Kanpur



Courses Director

**Dr. H. G. Prakash**

Director AES/ PI:CAAST-NC  
CSAUA&T, Kanpur

Courses Coordinator

**Dr. C. L. Maurya**

Professor/ Co-PI:CAAST-NC  
CSAUA&T, Kanpur

Courses Co-coordinator

**Dr. R. A. Yadav**

Professor, EBR  
CSAUA&T, Kanpur

Courses Co-coordinator

**Dr. Khalil Khan**

Assistant Prof., Directorate of Research  
CSAUA&T, Kanpur



For further information please contact:

**Dr. V. K. Chourasiya, SRF**

CAAST-NC Project  
Contact No. +91 9532630667  
Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

**Mr. Paras Kushwaha, SRF**

CAAST-NC Project  
Contact No. +91 8318127029  
Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

**Mr. Amit Singh, YP-I**

CAAST-NC Project  
Contact No. +91 7985699061  
Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)





**NHEP**

# Short Course

On

**Application of Modern Technology in Seed Production, Seed Processing & Seed Quality Enhancement of Nutritional Crops**

Sponsored Under

**ICAR, NEW DELHI FUNDED PROJECT**

**CENTRE FOR ADVANCED AGRICULTURAL SCIENCE & TECHNOLOGY ON NUTRITIONAL CROPS**

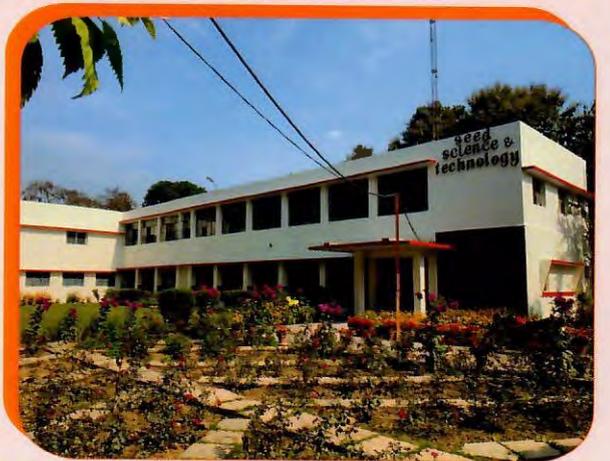


**March 13-19, 2020**

**CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY, KANPUR-208 002**

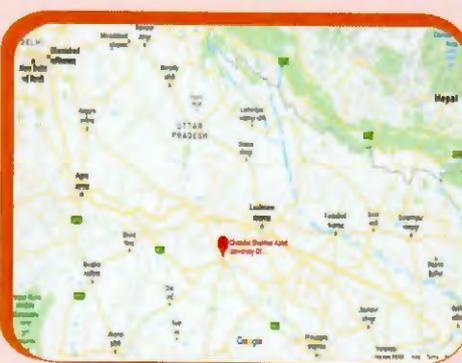
## About the Institution

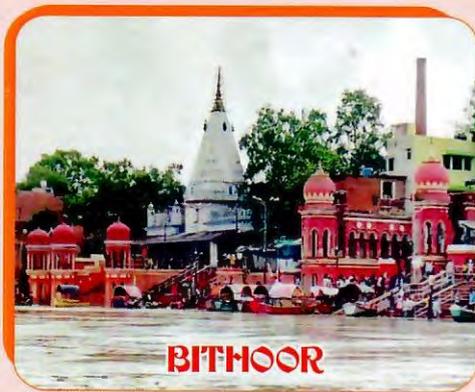
Chandra Shekhar Azad University of Agriculture & Technology, Kanpur is the leading agricultural institution of the country. University has strong foundation laid as early 1893. It was a pioneering Agriculture College, catering to the needs of agricultural education in pre-independence India. This institution continued its journey in independent India attaining its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to the status of university in March, 1975. It has been serving the nation since last 114 year through its research, education and development of technologies for farmers of the country. The University has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research needs of two agro-climatic zones of Uttar Pradesh namely, South-Western Semi-Arid and Central Plain Zone covering 22 districts of Uttar Pradesh with its seven colleges in which four colleges (Agriculture, Horticulture, Agroforestry, Home science) are located at university HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. It has led to the evolution of individual ecosystem-specific agro-techniques. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.



## About Kanpur

Kanpur formerly known as Cawnpore city lies in the lower Gangatic plain-Yamuna Doab on the Ganges (Ganga) River, about 80 km South/West of Lucknow. Believed to be founded by Hindu king Raja Kanh Deo of the erstwhile state of Sachendi, Kanpur was originally known as Kanhpur. Kanpur is the biggest city of the state and is the main centre of commercial and industrial activities. Formerly it was known as Manchester of India. Now it is the commercial capital of Uttar Pradesh. It is situated on the most important national highways no. 2 and 25, the main Delhi-Howrah railway trunk line & at the bank of the holy river Ganga. It is about 125 m above MSL. Presently civilian air-service to different part of the country is available from the city airport at Ganesh Shankar Vidyarthi Airport, Chakeri (Kanpur). The other nearest civilian airport Amausi (Lucknow) is 80 km away from Kanpur. Frequent rail services are there in the route connecting Lucknow with Kanpur as well as Delhi with Kanpur (438 km). CSA University is located at 8.4 km North-West of Kanpur Central railway/bus station is well connected by





**BITHOOR**



**GANGA BARRAGE**



**ISKCON TEMPLE**

road, the mode of conveyance being auto-rickshaw and taxi. Some of the must-see places in Kanpur include the Allen Forest Zoo, Jain Glass Temple, Kanpur Gardens, Shri Radhakrishna Temple, Green Park Stadium and holy place Bitoor.

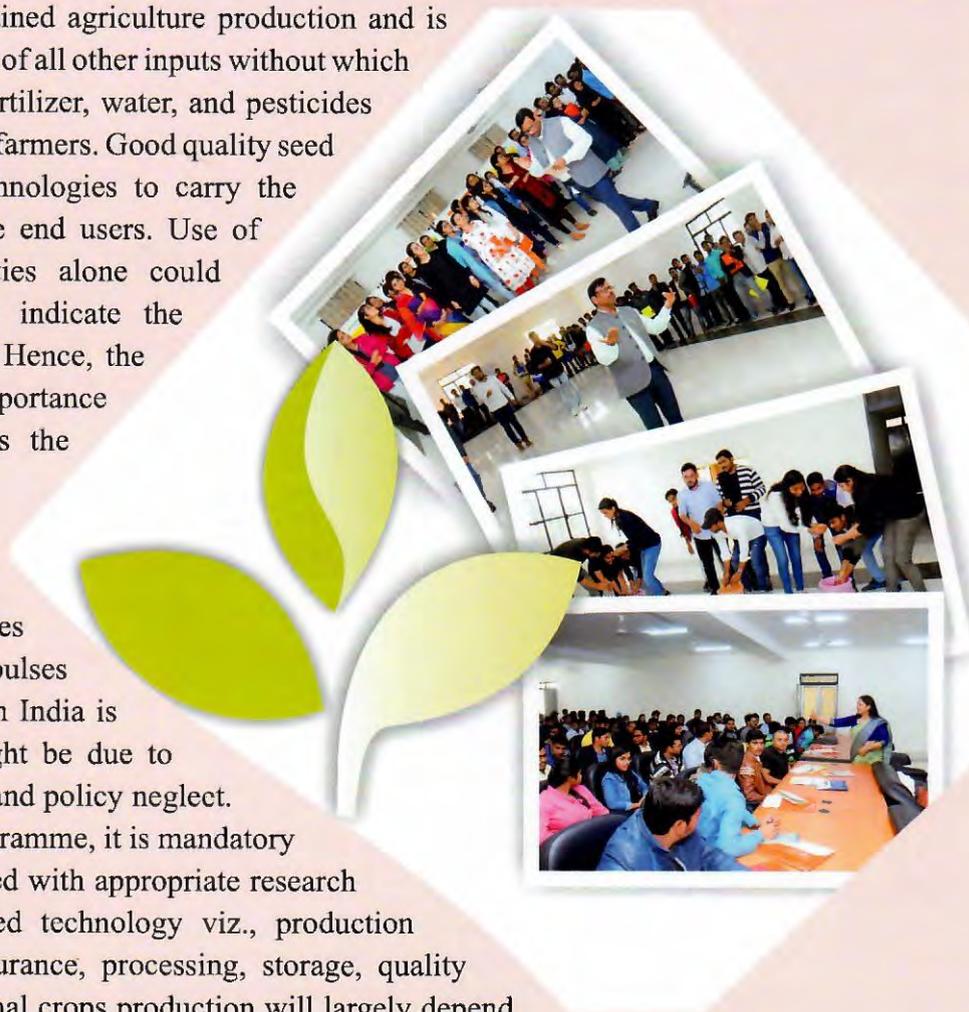
### CAAST-NC: Seed Production Component

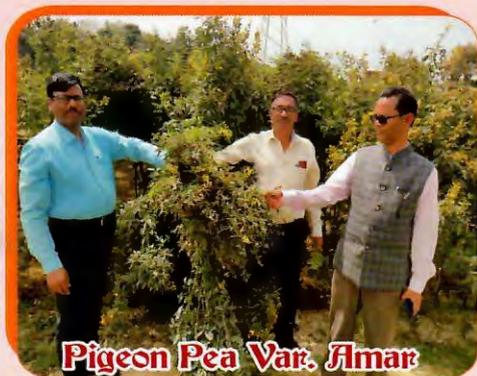
The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project-Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national/international/private organizations and scaling up of capacity building of postgraduate students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for the quality seed production of nutritional crops.

### About the Short Course

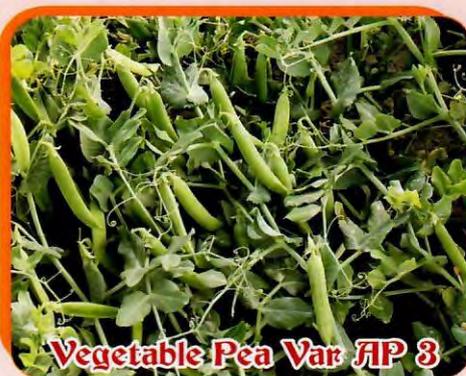
Seed is the decisive input for sustained agriculture production and is paramount for realizing the potential of all other inputs without which the investment on inputs such as fertilizer, water, and pesticides will not pay desired dividends to the farmers. Good quality seed is the vehicle of innumerable technologies to carry the advantages of such varieties to the end users. Use of quality seeds of improved varieties alone could increase productivity by 20-25% indicate the critical role of seed in agriculture. Hence, the quality status of seed is of critical importance to the seed producers as well as the farmers.

Though India is the largest producer (around 25% of global production), it however, consumes 27% and imports around 14% of its pulses requirements. The yield of pulses in India is quite low at 781 kg/ha which might be due to unavailability of good quality seed and policy neglect. For any successful quality seed programme, it is mandatory to produce sufficient quantity of seed with appropriate research backup on various aspects of seed technology viz., production research, maintenance, quality assurance, processing, storage, quality enhancement etc. Future of nutritional crops production will largely depend

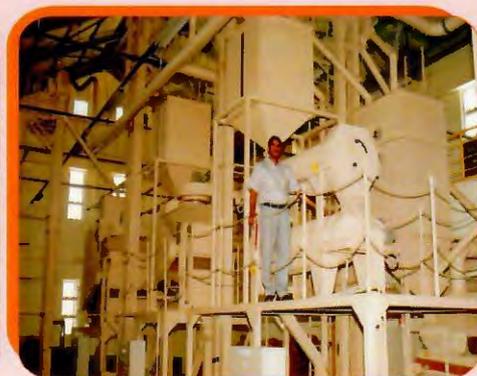




**Pigeon Pea Var. Amar**



**Vegetable Pea Var. AP 3**



upon development of improved varieties/ hybrids in various crops, supported by efficient, cost effective seed production technologies. Development and adoption of new seed production technologies and identification of alternative/specific areas for quality seed production are the key factor to enhance the total availability of quality seed to the farmers.

Both public and private sectors made significant achievements in seed technology research & seed production. Public sector contributed immensely to the standard seed production enhancement technologies whereas private seed sector is slightly ahead with ultra modern seed processing, seed storage and seed quality enhancement technologies. Private sectors concerned with low volume-high value crops, however public sectors taking care off for seed production of high valume-low value crops alongwith high value-low volume crops under social obligation.

Thorough pondering is needed on aspects such as development of climate resilient seed production technologies, identification of alternative provenances to tackle climate change, standardization of seed testing and quality assurance protocols, research on flowering synchronization and seed maturation (especially in Pigeon pea hybrids as they are future game changers), more sophistication in seed processing (thermo seed treatment technology), quality enhancement (second and third generation enhancement strategies), packing and handling, due importance to informal seed system (upgrading quality of farm saved seed), technology dissemination, capacity building and Public Private Partnership (PPP) approach for boosting up quality seed production of nutritional crops.



**Lentil Var. KLS 09-3**

### Eligibility

Postgraduate students and faculty not above the rank of Assistant Professor from Seed Science & Technology and Genetics and Plant Breeding discipline of CSA University, Kanpur and other Agricultural university of India are eligible for this short course. There are 50 seats available for which will distributed among the above mention discipline. Postgraduate students interested in attending this short course have to submit their application at the Seed Science & Technology Department, CSAUA&T, Kanpur.

### Registration Fee

The short course is sponsored under the NAHEP-CAAST-NC sub component, therefore the registration fees stands exempted. However, participants would have to furnish a copy of their university/ college ID at the time of registration or a certificate from their Dean/registrar indicating their enrolment in the respective university.



## Duration

This is a 7 days residential course which includes interactive lectures, demonstration and exposure visit of Seed Production Plots & Protected Cultivation Centre, Kannauj and CISH, IISR & CIMAP, Lucknow.

## Accommodation

Accommodation in the University guest house premises will be made available on first come first serve basis.

## Target Group

M. Sc., Ph. D. Students and faculty (not above the rank of Assistant Professor) from Seed Science & Technology and Genetics & Plant Breeding discipline of different Agricultural Universities of the country.

## Course Contents

India has the second largest population which is forecasted to grow from the current 1.38 to 1.73 billion by 2050. This would lead the twin problems, food and nutritional security to a huge population of the country. Nutritional crops continue to be an important ingredient of human diets specially the large vegetarian population in the country. This coupled with the increasing population resulted in reducing per capita availability of pulses & vegetables to the masses. It is well known that seed security ensures food security and food security ensures national security. The content of present short course programme is designed to enrich the basic and applied knowledge of postgraduate students in field of innovative approaches for quality seed production, processing, storage and quality enhancement of nutritional crops so that they can address the challenges of quality seed production for achieving seed security in particular and national security in general. The prime objectives of this short course is capacity building of postgraduates students and faculties in field of stored insect-pest, concept of seed vigour and its role, recent techniques inquire genetic purity of hybrid, quere of seed borne pathogen and Intellectual property rights and its importance in crop improvement. In short, the entire short course programme will revolve around five major area; quality seed production, processing, storage, quality enhancement technologies and seed policy.



## Kanpur Climate during Programme

Kanpur has a hot semi-arid steppe climate. The day temperature during 13-19 March is expected not to exceed 35°C and night temperature not drop below 24°C. The cloud cover is mostly clear and there is no precipitation during 13-19 March.

## Objective

Imparting fundamental & applied knowledge to post graduate students for capacity building in the field of innovative approaches of quality seed production, processing, storage & seed quality enhancement of nutritional crops.



**Mungbean Var. Sweta**

## Programme Schedule

Day One: 13 <sup>th</sup> March 2020	
9:00	<b>Registration</b>
10:00	<b>Ice Breaking Session</b>
11:00	<b>Inauguration Session</b>
11:45	<b>High Tea</b>

Technical Session		
12:00-13:00	Importance of Quality Seed in Agriculture, Seed Multiplication System and Seed Quality control in India	Dr. R. K. Choudhary Ex-Project Co-ordinator (NSP)
13:00-14:00	Pollination Dynamics for Quality Seed production of vegetable crops.	Dr. Sudipta Basu, PS, IARI, New Delhi
14:00-15:00	<b>Lunch</b>	
15:00-16:00	Management of Insect Pests in pulses.	Dr. R. K. Mishra, Senior Scientist IIPR, Kanpur
16:00-17:00	Seed quality : Concept and Management	Dr. V. Sankaran, Ex- GM, Production, NSC, New Delhi
17:00-18:00	Visit and Introduction to University Museum	Dr. A. K. Singh, Incharge, Museum,

Day Three: 14 <sup>th</sup> March 2020		
10:00-11:00	Weed Management for Quality Seed Production of Nutritional Crops	Dr. R. A. Yadav, Professor CSAUAT, Kanpur
11:00-12:00	Partnership in Seed Programmes	Dr. V. Sankaran, Ex- GM, Production, NSC, New Delhi
12:00-13:00	Seed Entrepreneurship Development: Small Scale Business modeling	Dr. Ranjit Kumar, Head Business Management-NAARM, Hyderabad
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Recent Advances in Post-harvest Technology in India	Dr. Indramani Misra, Head, Div. of Agril. Engineering, IARI, New Delhi
15:00-17:00	Visit to Protected Cultivation and Seed Production Farm, Vegetable Research Station, Kalyanpur, Kanpur	Dr. Rajiv Kuamr, Vegetable Scientist, CSAUAT, Kanpur
Day Third: 15 <sup>th</sup> March 2020		
<b>Visit to Protected Cultivation Centre at Kannauj</b>		

**Day Four: 16<sup>th</sup> March 2020**

10:00-11:00	Advances in Seed Storage	Dr. S. N. Sinha, Ex- Head IARI, RS, Karnal
11:00-12:00	Modeling Seed Drying for Better Seed Quality and Longevity	Dr. J. P. Sinha, PS, Farm Machinery Unit, IARI, New Delhi
12:00-13:00	Seed Technological Constraint and Gaps in Seed Production of Pulses	Dr. R. P. Katiyar, Ex - Director Research, CSAUAT, Kanpur
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Use of Information & Communication Technologies (ICTs) in Seed Production Programme	Dr. Vijay K. Kurnalliker, Asst. Professor, UAS, Raichur, Karnataka
15:00-16:00	Seed Production Technology for Hybrid Pigeon Pea	Dr. Ravi Hunge, Professor, UAS, Dharwad
16:00-17:00	Visit to Bio-control Lab CSAUA&T, Kanpur	Incharge Bio-control Lab

**Day Five: 17<sup>th</sup> March 2020****Exposure Visit to CISH, & CIMAP, Lucknow****Day Six: 18<sup>th</sup> March 2020**

09:00-10:00	Importance of Seed Treatment for Crop Health Management	Dr. Ajanta Birah, PS, NRC-IPM, New Delhi
10:00-11:00	Protected Cultivation for Seed Production of High Value Nutritional Crops	Dr. Neelam Patel, Incharge, Protected Cultivation Unit, IARI, New Delhi
11:00-12:00	Concept of Seed Vigour and its Role in Increasing Productivity	Dr. Malvika Dadlani, Ex-JDR, IARI, New Delhi
11:00-12:00	Detection of Seed Borne Fungal Pathogen and their Control in Pulse and Vegetable Crops	Dr. S. R. Niranjana, Ex-Vice Chancellor, Mysore University, Karnataka
12:00-13:00	Concept of Variety Maintenance and Maintenance Breeding	Dr. S. K. Chakravarty, PS, IARI, New Delhi
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Insect Pest of Major Vegetables and their Management	Scientist from IIVR, Varanasi
15:00-16:00	Knowledge/Aptitude Test	Participants
16:00-17:00	Visit to Seed Production Farm, Nawabganj, Kanpur	Farm Manager, CRF, Nawabganj

**Day Seven: 19<sup>th</sup> March 2020**

10:00-11:00	Intellectual Property Rights and their Relevance in Crop Improvement	Dr. S. Mauria Ex-Assistant Director General, ICAR, New Delhi
11:00-12:00	DNA Based Markers and their Applications in Quality Seed Production	Dr. Amrapali K Akhare, Prof. PDKV, Akola, Maharashtra
12:00-13:00	Indian Seed Industry: An overview	Dr. R. R. Hanchinal, Ex-Chairman, PPV & FR, New Delhi
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Filling of Feedback Questionare	Participants
15:00- Onward	<b>Valedictory Function/ Wrap up of the course</b>	

## Patron in Chief



### **Dr. D. R. Singh**

Hon'ble Vice Chancellor

Chandra Shekhar Azad University of Agriculture and Technology, Kanpur-208 002

### **Dr. H.G. Prakash**

Course Director

Director AES/ PI: CAAST-NC  
CSAUA&T, Kanpur-208 002

### **Dr. C.L. Maurya**

Course Coordinator

Professor/ Co-PI: CAAST-NC  
CSAUA&T, Kanpur-208 002

### **Dr. R. A. Yadav**

Course Co-coordinator

Professor, EBR  
CSAUA&T, Kanpur - 208 002

### **Dr. A. K. Sachan**

Course Co-coordinator

Assistant Director, S&F  
CSAUA&T, Kanpur -208 002

## SRF/YP of CAAST-NC Project Associated for organizing Short Course Programme

### **Dr. V. K. Chourasiya , SRF**

Contact No. +91 9532630667  
Email. vc3949@gmail.com

### **Mr. Paras Kushwaha, SRF**

Contact No. +91 8318127029  
Email. parasagri0@gmail.com

### **Mr. Amit Singh, YP-I**

Contact No. +91 7985699061  
Email. singhamit0601@gmail.com

## Student Associated

### **Ms. Pratiksha Singh**

Ph. D. Scholar  
Seed Science & Technology  
CSAUA&T, Kanpur-208 002

### **Mr. Rishabh Kumar Singh**

Ph. D. Scholar  
Seed Science & Technology  
CSAUA&T, Kanpur-208 002

### **Mr. Maneesh Kumar**

Ph. D. Scholar  
Seed Science & Technology  
CSAUA&T, Kanpur-208 002



**NAHEP**



Mentoring Programme On  
**Personality & Communication  
Skills Development of PG Student**



Sponsored under  
NAHEP-ICAR, New Delhi



&

World Bank Funded Project

CAAST-NC

(Seed Production Component)

20<sup>th</sup> January 2020



## About the Institution

Chandra Shekhar Azad University of Agriculture & Technology, Kanpur is the leading agricultural institution of the country. University has strong foundation laid as early 1893. It was a pioneering Agriculture College, catering to the needs of agricultural education in pre-independence India. This institution continued its journey in independent India to achieve its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to the status of University in March, 1975. It has been serving the nation since last 114 years through its research, education and development of technology for farmers of the country. The university has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research needs of two agro-climatic zones of state of Uttar Pradesh namely, South-Western Semi-Arid and Central plain zones covering 22 districts of Uttar Pradesh with its seven colleges in which four Colleges (Agriculture, Horticulture, Agro-forestry and Home science) are located at HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. It has led to the evolution of individual ecosystem-specific agro-techniques. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture & Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

## CAAST-NC Seed Production Component

The Centre of Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project- Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national /international/private organizations and scaling up of capacity building of M. Sc. and Ph. D. Students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for the quality seed production of nutritional crops.

### About the Programme

Personality Development quintessentially means enhancing and grooming person's outer and inner self to bring about a positive change in life. Each individual has a distinct personality that can be developed,



polished and refined through effective Communication skills. The main objective of this programme is boosting confidence, improving communication skill and language speaking abilities, widening scope of knowledge, developing certain hobbies or skills, learning fine etiquettes and manners, adding style and grace to the way one looks, talks and walks and overall imbibing oneself with positivity, liveliness and peace. The programme is specifically designed for confidence building and interviewing skills development of postgraduate students to enhance listening and reading skills, speaking skills



and presentational skills for future employment.

### Target Group

M. Sc. and Ph. D. Students of Chandra Shekhar Azad University of Agriculture and Technology, Kanpur.

### Course Contents

The mentoring programme includes effective communication and interpersonal skills development for increasing future employment opportunities and to compete successfully in the business environment etc. The soft skill development play an important role in the overall personality development of post graduate and doctoral students by enhancing their career prospects, such as the effective use of English, business correspondence, presentations, team building, leadership, team management, group discussions, interviews, and inter-personal skills. This mentoring programme will enhance pleasant and appealing personality such as self-confidence, positive attitude, emotional intelligence, social grace, flexibility, friendliness and effective communication skills. In short, the entire mentoring programme will focus on six main areas: personality development, effective communication skill, individual development programme, professional grooming and confidence building & interviewing skill for future employment.

### Kanpur Climate during Programme

Kanpur has a hot semi-arid steppe climate. The day temperature during third week of January is expected not to exceed 25 °C and night temperature not drop below 10 °C. The cloud cover is mostly clear and

there is no precipitation during third week January. Light woollen clothes are generally advised.

### Objective

Personality development through enhancing communication skill, confidence building, professional grooming, individual development programme interviewing skills and inter-personal skills set of postgraduate students for future employment



### Programme Schedule

20<sup>th</sup> January 2020

Venue: CAAST-NC Committee Hall

09:00	<b>Registration</b>	
09:30	Welcome/ Get-together	
09:45	Inauguration Session	
10:45	High Tea	
<b>Technical Session</b>		
11:00-12:00	Confidence Building and Interviewing skills.	Ms. Shefali Raj MD, PSIT, Kanpur
12:00-13:00	Professional Grooming.	
13:00-14:00	Lunch	
14:00-15:00	Verbal & Non-Verbal Communication	Ms. Geetanjali Arora Trainer
15:00-16:00	Individual Development Programme	
16:00-17:00	Wrap Up of the Programme	



Patron in Chief

**Dr. Sushil Solomon**

Hon'ble Vice Chancellor

Chandra Shekhar Azad University of Agriculture and Technology, Kanpur



Course Director

**Dr. H. G. Prakash**

Director AES/ PI: CAAST-NC  
CSAUA&T, Kanpur

Course Coordinator

**Dr. C. L. Maurya**

Professor/ Co-PI: CAAST-NC  
CSAUA&T, Kanpur

Course Co-coordinator

**Dr. R. A. Yadav**

Professor, EBR  
CSAUA&T, Kanpur

Course Co-coordinator

**Dr. Khalil Khan**

Assistant Prof., Directorate of Research  
CSAUA&T, Kanpur



For further information please contact:

**Dr. V. K. Chourasiya, SRF**

CAAST-NC Project  
Contact No. +91 9532630667  
Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

**Mr. Paras Kushwaha, SRF**

CAAST-NC Project  
Contact No. +91 8318127029  
Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

**Mr. Amit Singh, YP-I**

CAAST-NC Project  
Contact No. +91 7985699061  
Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)



Chandra Shekhar Azad U



World Bank



CSAU

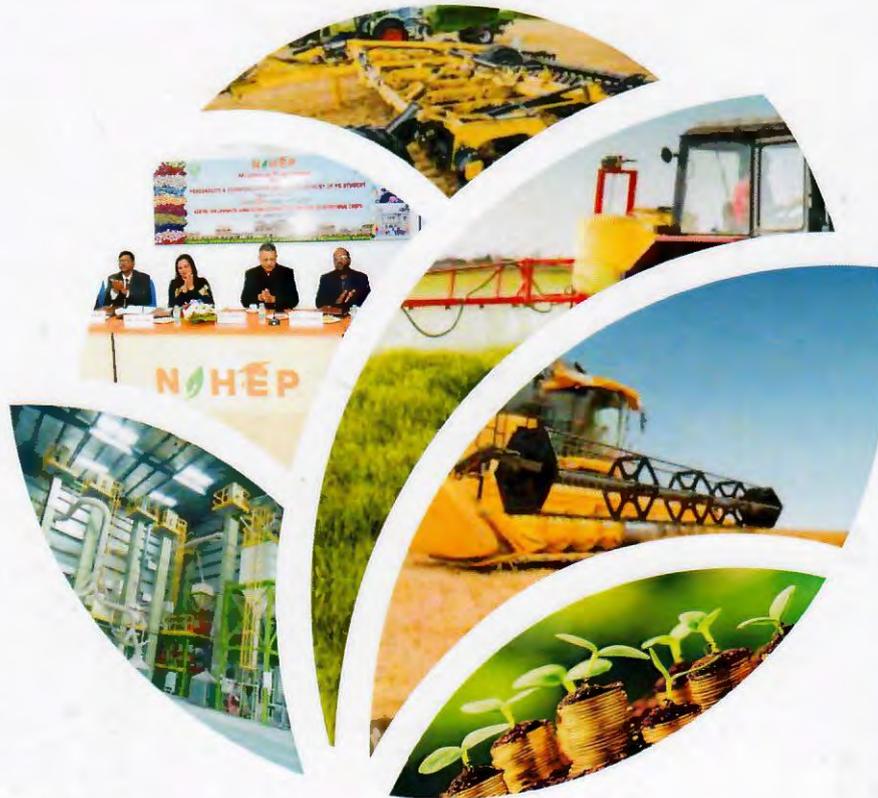


ICAR

Brain Storming Session  
on  
**Entrepreneurship Development for  
Quality Seed Production of Nutritional Crops**

Sponsored under  
NAHEP-ICAR, New Delhi & World Bank Funded Project  
**CAAST-NC: Seed Production Component**

23<sup>rd</sup> January 2020



**Chandra Shekhar Azad University of Agriculture & Technology  
Kanpur - 208 002 (U.P.)**

## ABOUT THE INSTITUTION

Chandra Shekhar Azad University of Agriculture & Technology, Kanpur is the leading agricultural institution of the country. University has strong foundation laid as early 1893.

It was a pioneering Agriculture College, catering to the needs of agricultural education in pre-independence India.

This institution continued its journey in independent India to achieve its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to the status of University in March, 1975. It has been serving the nation since last 114 years through its research, education and development of technology for farmers of the country. The university has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research needs of two agro-climatic zones of state of Uttar Pradesh namely, South-Western Semi-Arid and Central plain zones covering 22 districts of Uttar Pradesh with its seven colleges out of which four Colleges (Agriculture, Horticulture, Agro-forestry and Home science) are located at university HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. It has led to the evolution of individual ecosystem-specific agro-techniques. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture & Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

## CAAST-NC: SEED PRODUCTION COMPONENT

The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project- Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national /international/private organizations and scaling up of capacity building of M.Sc.(Ag.) & Ph.D. Students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for the quality seed production of nutritive crops.

## ABOUT THE BRAIN STORMING SESSION

The varied climate in India ensures the availability of nutritious grain and vegetables of excellent quality. India ranks first in the world's total pulse and 2<sup>nd</sup> in vegetable production. Despite, India is the importer of many pulses, in the globally. Quality seed is the basic and crucial input for sustained growth in agricultural production. Quality seed act as a catalyst for realizing the potential of all other inputs in agriculture. After the release of varieties, seed multiplication is most essential and prerequisite activity for ensuring the continuous availability of quality seeds of improved varieties to farmers at affordable prices and appropriate time. Quality seeds are being made available to the client by public and private sector. About 55 per cent of the total available seeds is being produced by private sectors which reflects a ample scope for start-up in the area of quality seed production and seed business.

It is a well-known fact that there is a mismatch between the number of agricultural postgraduates passing out each year to the availability of jobs in the sector. To make the budding human resources job providers rather than job-seeker; entrepreneurship is the only way out. To be a successful entrepreneur, one has to have a new idea. Thus, there is a need for innovation in Agriculture sector. Traditionally, Agriculture is seen as an old technology industry which needs to be reinvented in innovative ways. Being innovative is an important quality for a business/enterprise, especially when it faces strong competition or operates in a rapidly changing market. With the changing paradigm,



skills of the agricultural post graduates must also change and develop to meet the management demands of the enterprise. Managerial skills are very much essential to be successful in their lives as an entrepreneur or as an employee. In every sector, there are a set of skills which play an important role for its betterment or in other words leading to result based outcomes. The proposed brain storming session has twin expectation 1) equip the postgraduate students with necessary knowledge to become entrepreneurs and 2) develop entrepreneurship skills among post graduate students.



### TARGET GROUP

M. Sc. and Ph. D. Students of Chandra Shekhar Azad University of Agriculture and Technology, Kanpur.

### COURSE CONTENTS

This includes basic and applied knowledge for Entrepreneurship development such as knowledge about innovations & start up, government initiatives and support for Agri entrepreneurship, soft skills development, enhancing learning habit and business model. This course aims to identify the problems with innovative techniques, team work to validate hypothesis, refine the business plan and finally help in commence of seed-agri-business.

### KANPUR CLIMATE DURING SESSION

Kanpur has a hot semi-arid steppe climate. The day temperature during third week of January is expected not to exceed 25°C and night temperature not drop below 10°C. The cloud cover is mostly clear and there is no precipitation during third week of January.

Light woollen clothes are generally advised.

## OBJECTIVE

- Awareness about innovativeness and seed entrepreneurship.
- Transformation in seed entrepreneurship and business.
- Improve efficiency and effectiveness of post-graduate students



## PROGRAMME SCHEDULE

09:00	<b>Registration</b>	
09:30	Welcome/ Get-together	
09:45	Inauguration Session	
10:45	High Tea	
<b>Technical Session</b>		
11:00-12:00	Innovations & Start up : A prerequisite for Seed-Agri-entrepreneurship	Dr. Rohini Dutta, Manager, Bio incubator. IIT, Kanpur
12:00-13:00	Government Initiative and support for Agri-entrepreneurship	Dr. Nikhil Agarwal, Chief Executive Officer IIT, Kanpur
13:00-14:00	Lunch	
14:00-15:00	Quality seed production of Nutritional crops: A profitable entrepreneurship	Dr. Vikram Singh Associate professor SHUATS, Naini, Prayagraj
15:00-16:00	Entrepreneurial motivation through Vocational Guidance & Counselling	Dr. L. K. Singh Ex-Divisional Psychologist
16:00-17:00	<b>Wrap up of the session</b>	



Patron in Chief

**Dr. S. Solomon**  
Hon'ble Vice Chancellor

Chandra Shekhar Azad University of Agriculture and Technology, Kanpur



Courses Director

**Dr. H. G. Prakash**  
Director AES/ PI:CAAST-NC  
CSAUA&T, Kanpur

Courses Coordinator

**Dr. C. L. Maurya**  
Professor/ Co-PI:CAAST-NC  
CSAUA&T, Kanpur

Courses Co-coordinator

**Dr. R. A. Yadav**  
Professor, EBR  
CSAUA&T, Kanpur

Courses Co-coordinator

**Dr. Khalil Khan**  
Assistant Prof., Directorate of Research  
CSAUA&T, Kanpur



For further information please contact:

**Dr. V. K. Chourasiya, SRF**

CAAST-NC Project  
Contact No. +91 9532630667  
Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

**Mr. Paras Kushwaha, SRF**

CAAST-NC Project  
Contact No. +91 8318127029  
Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

**Mr. Amit Singh, YP-I**

CAAST-NC Project  
Contact No. +91 7985699061  
Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)



CSAU



The World Bank



ICAR

**NAHEP**

**National Training**

*on*

**Technological Interventions for Quality Seed  
Production of Nutritional Crops**

**Sponsored under NAHEP - ICAR, New Delhi & World Bank Funded Project  
CAAST-NC : Seed Production Component**

23 - 24 October, 2019



**Chandra Shekhar Azad University of Agriculture & Technology, Kanpur**

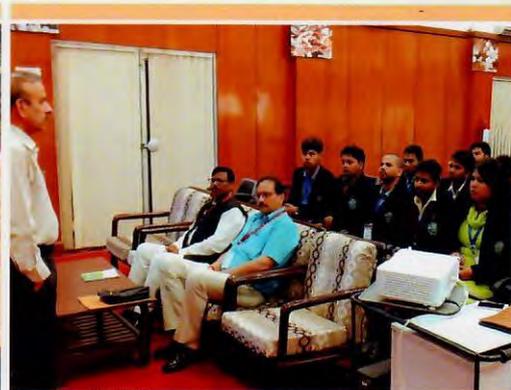
Chandra Shekhar Azad University of Agriculture & Technology, Kanpur is the premier agricultural institution of the country. University has a strong foundation laid as early 1893. It was pioneering Agriculture College, catering to the needs of agricultural education in pre-independence India. This institution continued its journey in independent India attaining its present status of university after several stage of metamorphosis - from School of Agriculture in 1893 to the status of University in 1975. The University's mandate today is to produce well-educated and trained manpower, develop high-yielding varieties of cereals, oil seeds, nutritional crops (pulses & vegetables) as well as basic and applied world-class agricultural research. The research in Agriculture, allied areas undertaking field and extension programme in its service area, spread over in 22 districts of Uttar Pradesh with its seven colleges in which four colleges (Agriculture, Horticulture, Agro-forestry, Home science) at Kanpur and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri. It has led to the evolution of individual ecosystem-specific agro - techniques. As the Mother of several ICAR institutions, CSAUA&T, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

### **CAAST-NC : Seed Production Component**

The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project-Indian Council of Agricultural Research, New Delhi. This project seek to establish partnership with national/international/private organizations and scaling up of capacity building of M.Sc. and Ph. D. students as well as faculties for enhancing their research and teaching capabilities. The project is aimed to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for the quality seed production of nutritional crops.

## About Training

The varied climate in India ensures the availability of nutritious grains and vegetables of excellent quality. India ranks first in the world's total pulse and 2<sup>nd</sup> in vegetable production. Despite, India is the importer of many pulses, in the globe. As per database published by Ministry of Agriculture & Farmers Welfare, during 2017-18 India has produced 24.51 MT of pulses and 311.7 MT of vegetables. Knowledge of the value of nutritious crops in our daily need for food and coincidental nutrition is required for both humans and animals. The main objective of this training is to develop capacity building of M.Sc. and Ph.D. students in area of seed quality attributes, management of seed production of nutritional crops and maintenance of seed quality during production & storage. The development of entrepreneurship for quality seed production of legumes and vegetable crops will assist in enhancing production and availability of quality seeds of nutritional crops which in turn will strengthen the prosperity of the farmers.



## Target Group

M. Sc. and Ph. D. Students of State Agricultural Universities.

## Course Contents

This includes basic and applied knowledge for quality seed production, seed processing, seed testing & seed storage of nutritional crops which will enhance the understanding and capacity building of the postgraduate students to be an entrepreneur in the field of seed business.

## Weather

Kanpur has a hot semi-arid steppe climate. During third week of October the expected temperature not to exceed 30°C and temperature not drop below 20°C. The cloud is mostly clear and there is no precipitation during last week of October.

## Objective

Capacity building through enhancing knowledge of postgraduate students for quality seed production of nutritional crops.

## Speakers

Sl.No.	Name	Designation
1.	Dr. Dinesh K. Agarwal	Director, ICAR- IISS, Mau (UP)
2.	Dr. S. Sithanatham	Director, SABRC, Chennai (TN)
3.	Dr. S N Sinha	Ex-Head, ICAR-IARI, RS, Karnal (Haryana)
4.	Dr. Ashwani Kumar	Principal Scientist, ICAR-IARI, RS, Karnal, (Haryana)
5.	Dr. V. B. Patel	Principal Scientist, ICAR- IARI, New Delhi
6.	Dr. Udit Narain	Ex-Professor, C.S. Azad University of Agriculture & Technology, Kanpur
7.	Dr. P. K. Katiyar,	Principal Scientist, ICAR- IIPR, Kanpur
8.	Dr. Udaya Bhaskar K.	Scientist, ICAR- IISS, Mau (UP)



### KEY PERSON

#### Dr. H. G. Prakash

Director, AES/ PI : CAAST-NC, CSAUA&T, Kanpur  
([directoraes@csauk.ac.in](mailto:directoraes@csauk.ac.in))

#### Dr. C. L. Maurya

Programme Co-ordinator  
Professor/ Co-PI : CAAST-NC, CSAUA&T, Kanpur  
([clmaurya@csauk.ac.in](mailto:clmaurya@csauk.ac.in))



### CONTACT PERSON

#### Dr. A.K. Sachan

Assistant Director  
Seed and Farm, CSAUA&T  
Contact No. +91 6393170234  
Email: [anilksachan63@rediffmail.com](mailto:anilksachan63@rediffmail.com)

#### Dr. Vinay Kumar Chourasiya

Senior Research fellow  
CAAST-NC Project  
Contact No. +91 9532630667  
Email: [vc3949@gmail.com](mailto:vc3949@gmail.com)

#### Mr. Paras Kushwaha

Senior Research fellow  
CAAST-NC Project  
Contact No. +91 8318127029  
Email: [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

#### Mr. Amit Singh

Young Professional-I  
CAAST-NC Project  
Contact No. +91 7985699061  
Email: [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)



CSAU

# N<sup>o</sup>HEP



ICAR

## National Training on

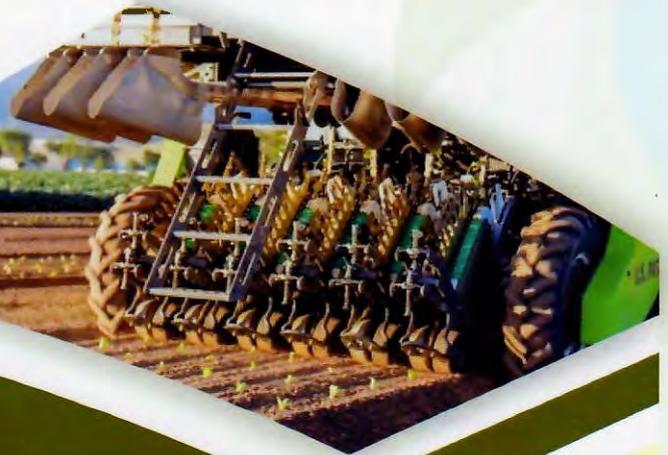
### Innovation in Seed production and Seed Processing Technology of Nutritional Crops

JANUARY 24 - 25, 2020

Sponsored Under

## N<sup>o</sup>HEP - ICAR, NEW DELHI

### CENTRE FOR ADVANCED AGRICULTURAL SCIENCE & TECHNOLOGY ON NUTRITIONAL CROPS



CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY, KANPUR - 208 002

## About the Institution

Chandra Shekhar Azad University of Agriculture & Technology, Kanpur is the leading agricultural institution of the country. University has strong foundation laid as early 1893. It was a pioneering Agriculture College, catering to the needs of agricultural education in pre-independence India. This institution continued its journey in independent India attaining its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to the status of university in March, 1975. It has been serving the nation since last 114 year through its research, education and development of technologies for farmers of the country. The University has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research needs of two agro-climatic zones of Uttar Pradesh namely, South-Western Semi-Arid and Central Plain Zone covering 22 districts of Uttar Pradesh with its seven colleges in which four colleges (Agriculture, Horticulture, Agroforestry, Home science) are located at university HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. It has led to the evolution of individual ecosystem-specific agro-techniques. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

## CAAST-NG: Seed Production Component

The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project- Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national /international/private organizations and scaling up of capacity building of postgraduate Students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for the quality seed production of nutritional crops.

## About the Training

A strong seed production programme can make agriculture more viable, profitable and sustainable. The quality seed is a critical and basic input for enhancing production and productivity of agri-horticultural crops. Use of quality seed alone can increase production by 15-20 per cent. Under optimum management with recommended input the productivity may increase up to 40-45 per cent. As we know food security is fundamental for any sort of progress and it is beyond doubt "Food security is impossible without seed security". Thus the pace of progress in food production is largely depend upon the progress of seed programme with which a country is able to multiply and market good quality seed of high yielding varieties with superior genetics. It is essential to make quality seed available to the farmers at the right place, in right time at affordable price to alleviate the farm production and livelihood of the farmers.

Undoubtedly, India has achieved phenomenal growth in the Indian seed sector as witnessed by quantum jump in quality seed production but still country has not reached to the desired level of seed replacement rate. Among the several factors, availability of qualified and trained manpower are the key factor for sustained growth of the seed industry. Keeping the fact in view, present training is being organized to develop capacity building of postgraduate students in area of quality seed production of nutritional crops. The training is specifically designed for increasing knowledge set in the field of innovative techniques of seed production, seed processing, plant protection, high throughput process and innovative technologies of seed quality enhancement in nutritional crops.



### Target Group

M. Sc. and Ph. D. Students of different universities and colleges viz. CSAUA&T, Kanpur, NDUA&T, Ayodhya, SVBPUA&T, Merrut, SHUATS, Prayagraj, Brahmanand PG College, Rath, Rama University, Kanpur and CSJMU, Kanpur.

### Course Contents

Future agricultural production will largely depend upon development of improved varieties/hybrids in nutritional crops supported by efficient cost effective seed production technologies. Diversification of areas for quality seed production and development of appropriate seed processing technology needs to be focused for enhancing quality seed production of nutritional crops. Present training programme includes enhancing basic and applied knowledge of postgraduate students in the field of innovative approaches for quality seed production, processing and seed quality enhancement of nutritional crops. In short, the entire training programme will focus on five main areas: quality seed production, insect-pest management, seed processing, seed quality enhancement of nutritional crops and IPR issues related to agricultural innovations.

### Kanpur Climate during Programme

Kanpur has a hot semi-arid steppe climate. The day temperature during third week of January is expected not to exceed 25 °C and night temperature not drop below 10 °C. The cloud cover is mostly clear and there is no precipitation during third week January. Light woollen clothes are generally advised.

### Objective

Enhancing basic and applied knowledge of post graduate students for capacity building in the area of innovative approaches for quality seed production, seed processing and seed quality enhancement of Nutritional crops.

# Training Schedule

24/01/2020

09:00	Registration: CAAST-NC Committee Hall
10:00	Inaugural Session
10:45	High Tea

## Technical session

11:00-12:00	Current scenario and future strategies for quality seed production of pulses	Dr. A. K. Singh, PS, IIPR, Kanpur
12:00-13:00	Disease Management for quality seed production of nutritional crops.	Dr. Mohammad Akram, PS, IIPR, Kanpur.
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Innovative approaches for Quality Seed Production of Nutritional Crops (Vegetables) under protected cultivation technology	Dr. Sudipta Basu, PS, IARI, New Delhi.
15:00-16:00	IPR in Agricultural Innovations	Dr. Sujeet Yadav, Scientific Officer UPCAR, Lucknow
16:00-17:00	<b>Visit to museum and seed production plot.</b>	

## Technical session

25.01.2020

10:00-11:00	Present status and emerging prospects in management of insect pests of nutritional crops (pulses).	Dr. Sujayanand, Senior Scientist IIPR, Kanpur
11:00-12:00	Seed quality enhancement through innovative techniques.	Dr. K. V. Sripathy, Scientist ICAR, IISS, Mau.
12:00-13:00	Upgradation of Seed Quality of nutritional crops through innovative post-harvest operations.	Er. Manoj Vishkarma NSRTC, Varanasi.
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Innovations in production of planting material of vegetable crops	Dr. A. B. Singh, Principal Scientist IIVR, Varanasi.
15:00-16:00	Innovations in quality seed production of vegetable crops	Dr. P. M. Singh, HOD, Seed Division IIVR, Varanasi.
16:00-17:00	<b>Warp up of the programme</b>	

Patron in Chief

**Dr. Sushil Solomon**

Hon'ble Vice Chancellor

Chandra Shekhar Azad University of Agriculture and Technology, Kanpur - 208 002

Course Director

**Dr. H. G. Prakash**

Director AES/ PI:CAAST-NC  
CSAUA&T, Kanpur - 208 002

Course Coordinator

**Dr. C. L. Maurya**

Professor/ Co- PI:CAAST-NC  
CSAUA&T, Kanpur - 208 002

Course Co-coordinator

For further information please contact:

**Dr. R. A. Yadav**

Professor  
EBR  
CSAUA&T, Kanpur

**Dr. Khalil Khan**

Assistant Professor  
Directorate of Research  
CSAUA&T, Kanpur

**Dr. V. K. Chourasiya, SRF**

CAAST-NC Project  
Contact No. +91 9532630667  
Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

**Mr. Amit Singh, YP-I**

CAAST-NC Project  
Contact No. +91 7985699061  
Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)

**Mr. Paras Kushwaha, SRF**

CAAST-NC Project  
Contact No. +91 8318127029  
Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)



**Scaling up of Knowledge Domain and Entrepreneurial Skill Development of Post Graduate Students and Budding Scientists for Quality Seed Production and Seed Quality Enhancement"**

**CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY**  
**Kanpur-208 002 (UP), India**  
[www.csaug.ac.in](http://www.csaug.ac.in)

**About the Institution**

C. S. Azad University of Agriculture and Technology, Kanpur is the leading agricultural institution of the country and having strong foundation laid as early 1893. This institution continued its journey in independent India attaining its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to status of university in March 1975. The University serving the nation since last 114 year through research, education and development of technologies for farmer of the country. The University has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research need of South-Western Semi-Arid and Central Plain zones covering 22 districts of Uttar Pradesh with its seven colleges in which four college (Agriculture, Horticulture, Agroforestry and Home Science) are located at university HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

**About the Project**

The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project-Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national/international/private organizations and scaling of capacity building of postgraduate students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for quality seed production of nutritional crops.

**About National e-Training**

India has the second largest population which is forecasted to grow from the current level of 1.38 to 1.73 billion by 2050. This would lead the twin problems, food and nutritional security to a huge population of the country. It is well known that seed security ensures food security and food security ensures national security. Seed is the decisive input for sustained agriculture production and is paramount for realizing the potential of all other inputs without which the investment on inputs such as Fertilizer, water and pesticides will not play desired dividends to the farmers. Good quality seed is the vehicle of innumerable technologies to carry the advantages of varieties to the end users. After the release of varieties, seed multiplication is most essential and prerequisite activity for ensuring the continuous availability of quality seed of improved varieties to farmers at affordable prices and at appropriate time. Quality seeds are being made available to the client by public and private sectors. About 55 per cent of the total available seeds is being produced by private sectors which reflect an ample scope for start-up in the area of quality seed production and seed business.

It is well known fact that there is a mismatch between the number of agricultural postgraduates passing out each year to the availability of jobs in agriculture sector. To make the budding human resources job provider rather than job-seeker, it is imperative to let them acquire knowledge and skills required for seed production and seed quality enhancement so that they can start their own seed business. Considering the fact, the current national e-training aimed to impart teaching of technological interventions for quality seed production, seed quality enhancement and enhancing learning habits and developing business model for initiating seed enterprises.

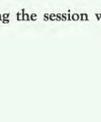
**Target Audience**

Students (currently pursuing M.Sc./Ph.D./MBA-ABM) of discipline of Seed Science and Technology, Genetics and Plant Breeding, Agronomy, Vegetable Science, Plant Pathology, Entomology and budding scientists are eligible to register and are requested to take advantage of the e-training during the Covid-19 lockdown period. Passed out students are not eligible for registration.

**Registration**

The e-training will be available to 100 registered eligible candidates (50 candidates of CSAUA&T, Kanpur and 50 candidates of other university/institution. If the seat is falling vacant in either of the category, shall be filled mutually). Preference will be given to the candidate first come first serve basis.

The link for the online registration is: <https://forms.gle/GXpxBbVSM32EF168A>  
 Or use QR code provided here.



Registration is opened till 23 August, 2020 (24 hrs.)  
 There is **no registration fee** for e-training.

**About the Selection**

The WhatsApp group of the selected candidates will be formed at least one day before the start of the e-training and the communication regarding the e-training will be posted in the group.

Lecture through online platform will be conducted along with online interaction. The link/Id for joining the session will be communicated through WhatsApp group of selected candidate on 24 August 2020.

*Patron*



**Dr. R.C. Agrawal**  
 National Director  
 NAHEP, ICAR, New Delhi

*Patron*



**Dr. D. R. Singh**  
 Vice-Chancellor  
 CSAUA&T, Kanpur

*Chief Guest*



**Dr. D. K. Yadav**  
 Assistant Director General (Seeds)  
 ICAR, New Delhi

*Chairman*



**Dr. S. Rajendra Prasad**  
 Vice-Chancellor  
 UAS, Bangalore (Karnataka)



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



**Dr. H. G. Prakash**  
 Director Research  
 CSAUA&T, Kanpur



**Dr. D. R. Singh**  
 Dean, CoA  
 CSAUA&T, Kanpur



**Dr. C. L. Maurya**  
 Course Coordinator  
 CSAUA&T, Kanpur



**Shri Parvej Alam**  
 Course Co-Coordinator  
 CSAUA&T, Kanpur

*For further clarification please contact :*

**Dr. V. K. Chourasiya, SRF**  
 CAAST-NC Project  
 Contact No. +91 9532630667  
 Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

**Mr. Paras Kushwaha, SRF**  
 CAAST-NC Project  
 Contact No. +91 8318127029  
 Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

**Mr. Amit Singh, YP-I**  
 CAAST-NC Project  
 Contact No. +91 7985699061  
 Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)

**E-Training Schedule**

25 August, 2020			
Inaugural Session			
10:30-11:00		Joining of Participants	
11:00-11:10	Welcome Address	Dr. Harygan Prakash, Director Research, CSAUA&T, Kanpur	
11:10-11:20	About e-Training	Dr. C. L. Maurya, Course Co-ordinator	
11:20-11:35	Inaugural Address	Dr. D. K. Yadav, ADG, (Seeds) ICAR, New Delhi and Hon'ble Chief Guest of the Event	
11:35-11:50	Chairman's Remarks	Dr. S. Rajendra Prasad, Hon'ble Vice Chancellor, UAS, Bangalore (Karnataka) & Chairman of the Event	
11:50-12:00	Vote of Thanks	Dr. D.R. Singh, Dean College of Agriculture	
Technical Session			
Date and Time	Name of Speaker	Topic	Speaker
25 August, 2020 14:00-15:00	Dr. D. K. Yadav ADG, (Seeds) ICAR New Delhi	Indian Seed Industry: Opportunities and Challenges	
26 August, 2020 12:00-13:00	Dr. Ranjit Kumar Head Business Management NAARM, Hyderabad	Seed Entrepreneurship Development: Small Scale Business Modelling	
26 August, 2020 15:00-16:00	Dr. S. Rajendra Prasad VC, UAS Bangalore (Karnataka)	Quality Seed Production and Marketing through Public Private Partnership	
27 August, 2020 11:00-12:00	Dr. Indramani Mishra Head Div. of Agril. Engineering IARI, New Delhi	Recent Advances in Post-Harvest Technology in India	
27 August, 2020 12:00-13:00	Dr. Arvind Nath Singh Director, ICAR-IISS Mau, Uttar Pradesh	Role of Seed Testing and Human Resource Development in Achieving Seed Security	
27 August, 2020 15:00-16:00	Dr. Ajanta Birah PS, NRC-IPM New Delhi	Importance of Seed Treatment for Crop Health Management	
28 August, 2020 11:00-12:00	Dr. D. K. Agarwal Ex-Director, ICAR-IISS Mau (UP)	Management of Quality Seed Production in Entrepreneurial Way	
28 August, 2020 12:00-13:00	Dr. RR Hanchinal Ex-Chairman, PPV&FR New Delhi	Seed Bill 2019: Relevance, Issues and Concern	
29 August, 2020 11:00-12:00	Dr. K. V. Sripathy Scientist, ICAR-IISS Mau	Nanomaterials: A New Vistas for Seed Quality Enhancement	
29 August, 2020 12:00-13:00	Dr. Vijay Kumar Kurnaliker Asst. Professor College of Agriculture UAS, Raichur, Karnataka	Use of Information & Communication Programmes (ICTs) in Seed Production	
Wrap-up Session (13:00-13:30)			
29 August, 2020 13:00-13:10	Dr. H. G. Prakash Director Research, CSAU PI : CAAST-NC	Welcome Address & Training Report	
29 August, 2020 13:10-13:20	Dr. Prabhat Kumar NC (CAAST & Component-2) NAHEP, ICAR, New Delhi	Valedictory Address	
29 August, 2020 13:20-13:30	Dr. C. L. Maurya Professor Programme Co-ordinator	Vote of Thanks	

**Note: Registered candidate have to stay connected 15 min. before the start of the each session/ e-lecture. To get e- certificate, online presence of candidates during the entire session is mandatory. Online certificate will be issued to registered candidates after submission of their feedback Report.**



## Brainstorming Session

on

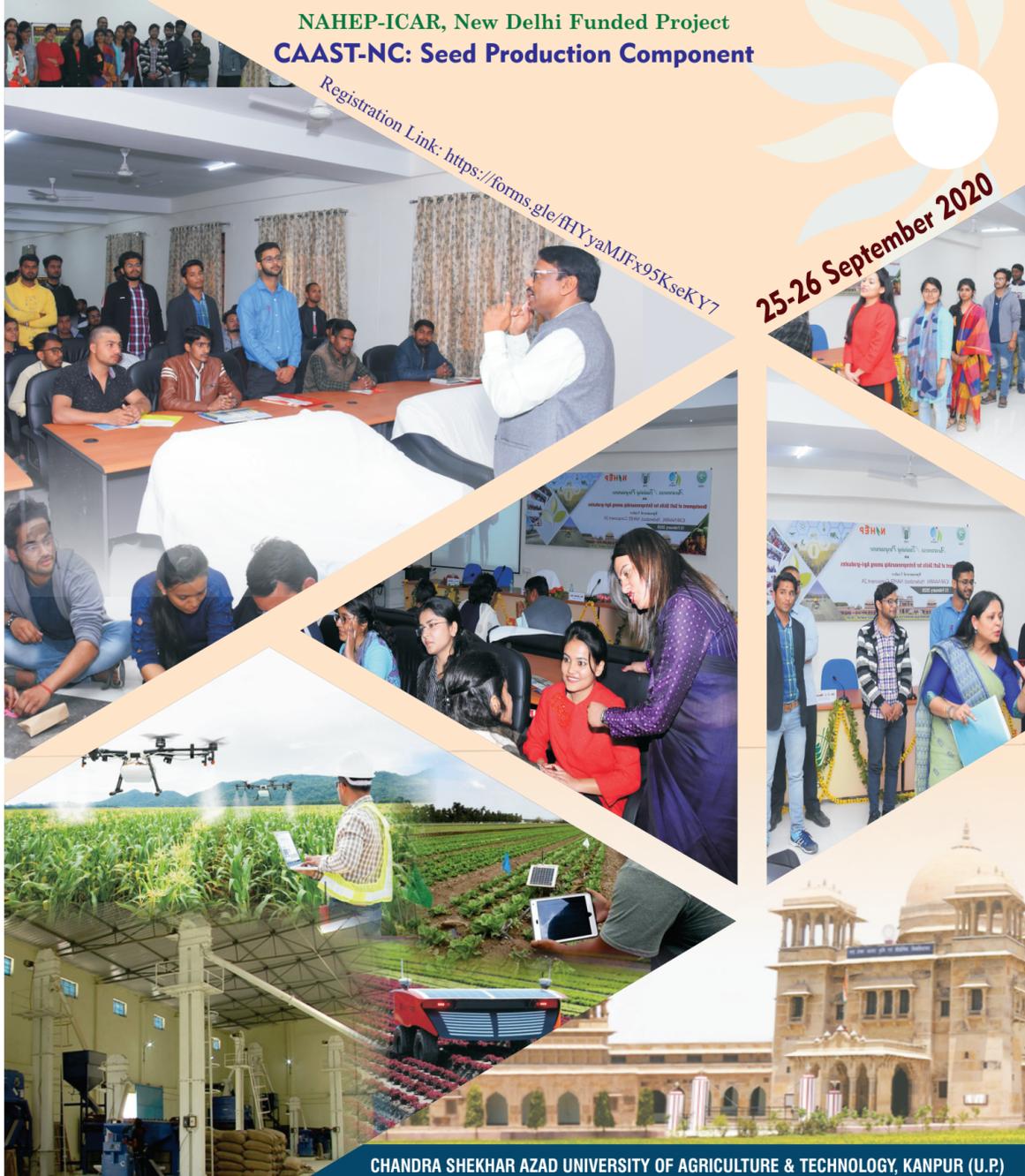
### Communication Skills Development for Seed Entrepreneurship

Sponsored under

NAHEP-ICAR, New Delhi Funded Project  
CAAST-NC: Seed Production Component

Registration Link: <https://forms.gle/fHYyaMJF95KseKY7>

25-26 September 2020



CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY, KANPUR (U.P.)

#### About the University

C. S. Azad University of Agriculture and Technology, Kanpur is the leading agricultural institution of the country and having strong foundation laid as early 1893. This institution continued its journey in independent India attaining its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to status of university in March 1975. The University serving the nation since last 114 year through research, education and development of technologies for farmer of the country. The University has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research need of South-Western Semi-Arid and Central Plain zones covering 22 districts of Uttar Pradesh with its seven colleges in which four colleges (Agriculture, Horticulture, Agroforestry and Home Science) are located at university HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

#### About the Project

The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project-Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national/international/private organizations and scaling of capacity building of postgraduate students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for quality seed production of nutritional crops.

#### About the e-Brainstorming

The productive harvest is highly relying on the availability of quality seeds. The Indian seed market reached a value of US\$ 4.8 Billion in 2019, exhibiting a double-digit growth during 2014-2019. This could have been possible due to untiring endeavour of public and private seed players of the country. Approximately 600 private players are involved in seed business in our country and still there is a huge scope of initiating new seed ventures for our passing out agri-students because there is a dire need of quality seeds of agri-horti crops to fetch desired level of production and productivity. Realizing the importance of availability of quality seed to the farmers in adequate quantity, the government policies geared towards promoting and fostering entrepreneurship of new entrepreneurs to create sustainable new seed ventures.

To be a successful either entrepreneur or employee of any organisation, one should possess a set of skills/attributes which helps in achieving the organisational goals in due course of time by overcoming day to day hindrances arising in the way of organisational performance of the many attributes, an inevitable attribute is the ability to communicate. Communication occurs daily in our society through conversations either face to face, on the phone, Internet, letter and host of other means. The significance of communication is very crucial to the continued understanding, cooperation and development in society, organisation and entrepreneurial ventures. Effective communication in any entrepreneurship is important for decision making and successful functioning. Thus communication skills play a pivotal role in grooming of professional career, entrepreneurship and venture seeking.

On one side our agricultural education is tailor-made to manufacture job seekers; not job creators, on the other there is hardly any provision for nurturing communicative competency. UNESCO rightly pointed out that developing entrepreneurial skill should become major concerns of higher education in order to facilitate employability of graduates. Unfortunately, developing communication skills are being given the least importance at graduation levels in agricultural universities. Surprisingly, communication is taught as a subject in one or two semesters only. The condition is no different at post-graduation level too. This is one of the major reasons why most of student coming out of institutions are weak in their communication skill. In view of above, the present brainstorming session is designed to foster the communication skills of PG students to make them ready for industry/organisation and to be a successful entrepreneur.

#### Target Audience

Students [M.Sc. (Ag)/M.Tech./M.H.Sc./Ph.D./MBA-ABM] are eligible to register and are requested to take advantage of the brainstorming session during the Covid-19 lockdown period. The students currently pursuing their degree programme will be preferred.

#### Registration

The e-training will be available to 250 registered eligible candidates. Preference will be given to the candidate first come first serve basis.

The link for the online registration is: <https://forms.gle/fHYyaMJF95KseKY7>

Or use QR code provided here.

Registration is opened till **23 September, 2020 upto 5:00 pm**

**There is no registration fee for e-Brainstorming session.**



#### About the Selection

The WhatsApp group of the selected candidates will be formed at least one day before the start of the e-brainstorming session and the communication regarding the e-brainstorming session will be posted in the group.

Lectures through online platform will be conducted along with online interaction. The link/Id for joining the session will be communicated through WhatsApp group/email of selected candidates on **24 September 2020**.

Patron



**Dr. R.C. Agrawal**  
DDG (Education) & National Director  
NAHEP, ICAR, New Delhi

Patron



**Dr. D. R. Singh**  
Vice-Chancellor  
CSAU&T, Kanpur

Guest Speaker



**Dr. B. Kumar**  
Ex-Professor/Scholar-In-Residence  
RPCAU, Pusa, Samastipur, Bihar

Guest Speaker



**Dr. Lakshmi Mantha**  
Assistant Professor  
Osmania University, Hyderabad



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



**Dr. H. G. Prakash**  
Director Research  
CSAU&T, Kanpur



**Dr. C. L. Maurya**  
Professor/Course Director  
CSAU&T, Kanpur

For further clarification please contact :

**Dr. V. K. Chourasiya, SRF**

CAAST-NC Project  
Contact No. +91 9532630667  
Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

**Mr. Paras Kushwaha, SRF**

CAAST-NC Project  
Contact No. +91 8318127029  
Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

**Mr. Amit Singh, YP-I**

CAAST-NC Project  
Contact No. +91 7985699061  
Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)

**Note:** Registered candidates have to stay connected 15 min. before start of the each session/e-lecture. To get e-certificate, online presence of candidates during the entire session is mandatory. Online certificate will be issued to registered candidates after submission of their feedback Report.

30<sup>th</sup>  
January  
2021

ONLINE ESSAY COMPETITION  
ON

# Innovations in Quality Seed Chain Management

Organized under the Aegis

NAHEP-ICAR, New Delhi Funded Project

CAAST-NC: Seed Production Component

Chandra Shekher Azad University of Agriculture  
And Technology, Kanpur - 208 002

## Details of Online Essay Competition

- Essay competition is open for all students and faculties of Plant Science and horticulture group from recognized Agricultural Universities, Institutions and colleges of India.
- The essay competition will be conducted online.
- The participants may register himself/herself on google link which will remain active up to 26<sup>th</sup> January 2021 (24 hrs).
- 300 seats for eligible candidates are available. The candidates will be selected on first come first serve basis.
- Essay competition will be held on 30<sup>th</sup> January 2021 and examination link will remain active for 3:00 hrs. between 12:00 to 15:00 only. The link will be communicated to participants on 29<sup>th</sup> January 2021 through whatsapp group.
- Candidates secure more than 50% marks will be provided participation certificate. However, top 3 rankers will be provided certificate of merit.
- The name of candidate and organization in the registration form and on essay examination link both should be alike or otherwise candidature will be cancelled.
- Legible manuscript will be accepted only. The participants are advised to answer on A4 size plain paper and upload PDF copy of the same in single file on the provided essay examination link.
- The essay shall be no longer than 3000 words and no shorter than 1500 words. Essay may be written either in English or Hindi language.
- Answer should be given in standard format like Introductory paragraph, main body paragraph and concluding paragraph.
- **Registration Link** : <https://forms.gle/hMooGFX2tKc3tbTO9>

## Target Audience

M.Sc. & Ph.D. Students and faculties of Plant Science Group (Genetics & Plant Breeding, Seed Science & Technology, Plant Pathology and Plant Genetic Resources) and Horticulture group (Vegetable Science/Olericulture; Fruit Science /Pomology; Horticulture; Spices, Plantation, Medicinal and Aromatic Plants and Post Harvest Technology)

## About the Selection

The WhatsApp group of the selected candidates will be created at least one day before the start of the essay competition & the essay competition link will be posted in the group on 29<sup>th</sup> January 2021. Keep watching your WhatsApp.



Patron

**Dr. R. C. Agrawal**

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



Patron

**Dr. D. R. Singh**

Vice Chancellor  
CSAUA&T, Kanpur



National Convener

**Dr. Prabhat Kumar**

NC (CAAST & Component-2)  
NAHEP-ICAR, New Delhi



Chairman

**Dr. H. G. Prakash**

Director Research  
CSAUA&T, Kanpur



Organizing Secretary

**Dr. C. L. Maurya**

Professor/Co-PI  
CSAUA&T, Kanpur

For any query

Mr. Paras Kushwaha, SRF  
Mob.: +91 8318127029  
Dr. V. K. Chourasiya, SRF  
Mob.: +91 9532630667



REGISTRATION

Jury for Evaluation:

Dr. H. G. Prakash, Director Research  
Dr. Rajiv, Assistant Professor

Dr. C. L. Maurya, Professor  
Dr. Sweta, Assistant Professor

Dr. Lokendra Rathj, Associate Professor  
Dr. H. C. Singh, Assistant Professor

मुख्य अतिथि



श्रीमती आनन्दीबेन पटेल  
मा0 राज्यपाल 30प्र0

# राष्ट्रीय वेबिनॉर

२३ दिसम्बर २०२०



NHEP

कृषकों को स्वावलम्बी एवं आत्मनिर्भर बनाने हेतु

किसान उत्पादक संगठन

आवश्यकता, अवसर, चुनौतियां एवं क्रियान्वयन



भा.कृ.अनु.प., नई दिल्ली द्वारा  
वित्त पोषित परियोजना (कास्ट-एनसी)

चन्द्र शेखर आजाद कृषि एवं प्रौद्योगिक  
विश्वविद्यालय, कानपुर-208 002 उत्तर प्रदेश

## मुख्य अतिथि



श्रीमती आनन्दीबेन पटेल  
मा० राज्यपाल ३०प्र०

## विशिष्ट अतिथिगण



श्री पुरुषोत्तम दास  
मा० राज्य मंत्री  
पंचायत राज तथा कृषि एवं किसान कल्याण  
भारत सरकार



डॉ० लक्ष्मी कुमार बहियान  
मा० राज्य मंत्री  
पशुपालन, डेयरी और मत्स्य पालन  
भारत सरकार



श्री लखन सिंह राजपूत  
मा० राज्य मंत्री  
कृषि, कृषि शिक्षा एवं अनुसंधान  
उत्तर प्रदेश



डॉ० पंजाब सिंह  
पूर्व सचिव कृषि अनुसंधान एवं शिक्षा विभाग  
एवं पूर्व महानिदेशक, भा०कृ०अनु०प०  
नई दिल्ली



डॉ० ए० के० सिंह  
उप महा निदेशक (कृषि प्रसार)  
भा०कृ०अनु०प०, नई दिल्ली

## संरक्षक



डॉ० आर० सी० अग्रवाल  
उप महा निदेशक (शिक्षा)  
भा०कृ०अनु०प०, नई दिल्ली

## संरक्षक



डॉ० डी० आर० सिंह  
कुलपति  
च० शे० आ० कृषि एवं प्रौ० वि०वि०, कानपुर



डॉ० ए०के० जी० प्रकाश  
निदेशक शोध/अध्यक्ष



डॉ० धूम सिंह  
निदेशक प्रसार/सह अध्यक्ष



डॉ० डी० आर० सिंह  
अधिष्ठाता कृषि संकाय/सह अध्यक्ष



डॉ० सी० एल० मौर्य  
प्राध्यापक/संयोजक सचिव



डॉ० जितेन्द्र सिंह  
वैज्ञानिक/सह संयोजक सचिव

## तकनीकी स्तर प्रथम

डॉ० एच०जी० प्रकाश, निदेशक शोध, अध्यक्ष  
डॉ० आशा यादव, सहा० प्राध्यापक, सह अध्यक्ष  
डॉ० अभिमन्यू यादव, वैज्ञानिक, सदस्य  
डॉ० खलील खॉन, वैज्ञानिक, सदस्य  
डॉ० स्वेता, सहा० प्राध्यापक, संचालक सदस्य  
डॉ० एस० बी० पाल, सहा० प्राध्यापक, रपोर्टर

## तकनीकी स्तर द्वितीय

डॉ० धूम सिंह, निदेशक प्रसार, अध्यक्ष  
डॉ० जितेन्द्र सिंह, प्राध्यापक, सह अध्यक्ष  
डॉ० ए० के० सिंह, सह प्राध्यापक, सदस्य  
डॉ० अशोक कुमार, सह प्राध्यापक, सदस्य  
डॉ० साधना वैस, वैज्ञानिक, सदस्य  
डॉ० रश्मी सिंह, सहा० प्राध्यापक, संचालक सदस्य  
डॉ० एस० के० पाण्डेय, वैज्ञानिक, रपोर्टर

कार्यक्रम संचालन समिति: डॉ० स्वेता एवं डॉ० रश्मी सिंह, सहायक प्राध्यापक

ऐप प्रबन्धन समिति : डॉ० ए० एस० श्रीवास्तव, इन्चार्ज, ए०के०एम०यू०, श्री विवेक कुमार, ए०के०एम०यू० एवं श्री सुबोध वाई०पी०-२

ई-पंजीकरण समिति : डॉ० जितेन्द्र सिंह, वैज्ञानिक/सह संयोजक सचिव, डा० वी० के० चौरसिया एवं श्री पारस कुशवाहा, एस०आर०एफ० (9532630667, 8318127029)



**Patron**  
**Dr. B. C. Agrawal**  
 DDG (Education) &  
 National Director  
 NAHEP-ICAR, New Delhi



**Patron**  
**Dr. D. B. Singh**  
 Vice Chancellor  
 CSAUA&T, Kanpur



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



**Chairman**  
**Dr. H. G. Prakash**  
 Director Research  
 CSAUA&T, Kanpur



**Organizing Secretary**  
**Dr. C. L. Maurya**  
 Professor/Co-PI  
 CSAUA&T, Kanpur



REGISTRATION

<https://forms.gle/hMooGFX2tKc3tbTQ9>

**Jury for Evaluation:**

- |   |                                      |
|---|--------------------------------------|
| Dr. H. G. Prakash, Director Research    | Dr. Sweta, Assistant Professor       |
| Dr. C. L. Maurya, Professor             | Dr. Rajiv, Assistant Professor       |
| Dr. Lokendra Rathi, Associate Professor | Dr. H. C. Singh, Assistant Professor |



**ONLINE PERSUASIVE WRITING COMPETITION**

ON

**Role of Quality Seed in Doubling  
Farmers' Income**

*Organized under the Aegis*

**NAHEP-ICAR, New Delhi Funded Project**

**CAAST-NC: Seed Production Component**

**Chandra Shekher Azad University of Agriculture  
And Technology, Kanpur - 208 002**

**3<sup>rd</sup> February, 2021**

**Details of Online Persuasive Competition:**

- Persuasive writing competition is open for all students and faculties of Plant Science and Horticulture group from recognized Agricultural Universities, Institutions and colleges of India.
- The Persuasive writing competition will be conducted online.
- The participants may register himself/herself on google link which will remain active up to 26<sup>th</sup> January 2021 (24 hrs).
- The competition will be available for 300 eligible candidates. Preference will be given to the candidate first come first serve basis.
- The competition will be held on 3<sup>rd</sup> February 2021 and examination link will remain active for 3:00 hrs. between 12:00 to 15:00 only. The link will be communicated to participants on 2<sup>nd</sup> February 2021 through whatsapp group.
- Candidates secure more than 50% marks will be provided participation certificate. However, top 3 rankers will also be provided Certificate of Merit.
- The name of candidate and organization in the registration form and online persuasive examination link both should be alike or otherwise candidature will be cancelled.
- Legible manuscript will be accepted only. The participants are advised to answer on A4 size plain paper and upload PDF copy of the same in single file on the provided persuasive examination link.
- The answer shall be no longer than 1500 words and no shorter than 1000 words. The candidate may choose either English or Hindi language.
- Answer should be given in standard format like Introductory paragraph, main body paragraph and concluding paragraph.

**Target Audience:** M.Sc. & Ph.D. Students and faculties of Plant Science Group (Genetics & Plant Breeding, Seed Science & Technology, Plant Pathology and Plant Genetic Resources) and Horticulture group (Vegetable Science/Olericulture; Fruit Science /Pomology; Horticulture; Spices, Plantation, Medicinal and Aromatic Plants and Post Harvest Technology)

**About the Selection:**

The WhatsApp group of the selected candidates will be created at least one day before the start of the persuasive competition & the persuasive competition link will be posted in the group on 2<sup>nd</sup> February 2021. Keep watching your WhatsApp.

**For any query**

Mr. Paras Kushwaha, SRF Mob.: +91 8318127029	Dr. V. K. Chourasiya, SRF Mob.: +91 9532630667
---	---



CSAU



WORLD BANK



ICAR

## ONLINE QUIZ COMPETITION

28<sup>th</sup> January  
2021

# Quest For The Best

Organized under the Aegis

NAHEP-ICAR, New Delhi Funded Project

CAAST-NC: Seed Production Component

Chandra Shekher Azad University of Agriculture & Technology, Kanpur

Patron



**Dr. R. C. Agrawal**

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

Patron



**Dr. D. R. Singh**

Vice Chancellor  
CSAUA&T, Kanpur

National Convener



**Dr. Prabhat Kumar**

NC (CAAST & Component-2)  
NAHEP-ICAR, New Delhi

Chairman



**Dr. H. G. Prakash**

Director Research  
CSAUA&T, Kanpur

Organizing Secretary



**Dr. C. L. Maurya**

Professor/Co-PI  
CSAUA&T, Kanpur

### Details of Online Quiz Competition

- Quiz competition is open for all students and faculties of Plant Science and horticulture groups from recognized Agricultural Universities, Institutions and colleges of India.
- The quiz will be conducted online having questions from above subject group.
- The participants may register himself/herself on google form which will remain active up to 26<sup>th</sup> January 2021 (24 hrs).
- The competition will accommodate to 300 eligible candidates. Selection of candidates will be done on "first come first serve" basis.
- Quiz will be held on 28<sup>th</sup> January 2021 and quiz link will remain active for 2:00 hrs. between 12:00 to 14:00 only. The link will be communicated to participants on 27<sup>th</sup> January 2021 through WhatsApp group.
- Candidates securing more than 50% marks will be provided participation certificate.
- Top 3 rankers will be provided certificate of merit.
- Be careful while attempting the online quiz competition. Submit your quiz within allotted time. Organizing team will not be responsible in case of unsuccessful submission due to slow/breakdown of connectivity at your end.
- The name of candidate and organization in the registration form and online question paper both should be alike or otherwise candidature will be cancelled.
- Registration Link:** <https://forms.gle/hMooGFX2tKc3tbTO9>



**Target Audience:** M.Sc. & Ph.D. Students and faculties of Plant Science Group (Genetics & Plant Breeding, Seed Science & Technology, Plant Pathology and Plant Genetic Resources) and Horticulture group (Vegetable Science/Olericulture; Fruit Science /Pomology; Horticulture; Spices, Plantation, Medicinal and Aromatic Plants and Post Harvest Technology)

### About the Selection

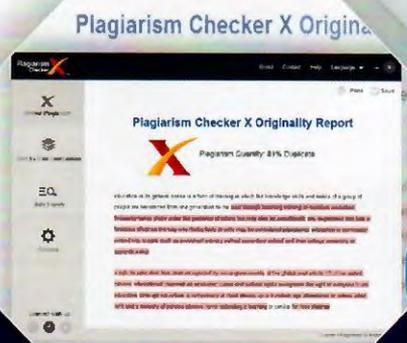
The WhatsApp group of the selected candidates will be created at least one day before the start of the quiz competition & the quiz competition link will be posted in the group on 27<sup>th</sup> January 2021. Keep watching your WhatsApp.

For any query

**Mr. Paras Kushwaha, SRF** / **Dr. V. K. Chourasiya, SRF**  
Mob.: +91 8318127029 / Mob.: +91 9532630667



NAHEP



24<sup>th</sup> - 28<sup>th</sup>  
November  
2020



*National e-Training*

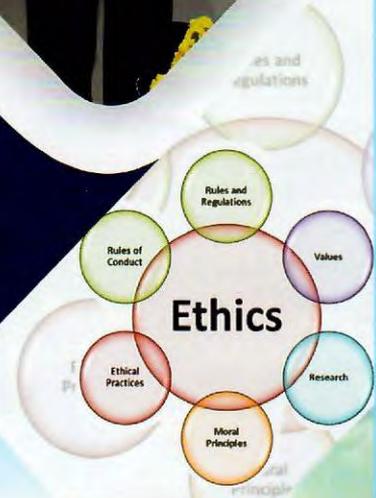
on

*Research Ethics and Thesis / Research Paper  
Writing Skills Development*

Sponsored under

NAHEP-ICAR, New Delhi & World Bank Funded Project

CAAST-NC: Seed Production Component



CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY KANPUR-208002

For registration

*Patron*



**Dr. R. C. Agrawal**

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

*Patron*



**Dr. D. R. Singh**

Vice Chancellor  
CSAUA&T, Kanpur, U.P.



**Dr. Prabhat Kumar**

National Convener  
NC(CAAST & Component-2)  
NAHEP, ICAR, New Delhi



**Dr. H. G. Prakash**

Organizing Director  
Director Research / PI:CAAST-NC  
CSAUA&T, Kanpur, U.P.



**Dr. C. L. Maurya**

Course Director  
Professor / Co-PI:CAAST-NC  
CSAUA&T, Kanpur, U.P.

**ASSOCIATED SCIENTISTS**

**Dr. B. P. Singh**

Assistant Professor  
NARP, Dalipnagar  
CSAUA&T, Kanpur Nagar, U.P.

**Shri Pravez Alam**

Assistant Professor  
Deptt. of Seed Science & Technology  
CSAUA&T, Kanpur, U.P.

**Dr. Jitendra Singh**

SMS  
Krishi Vigyan Kendra  
CSAUA&T, Kanpur, U.P.

**Moderator :** (i) **Dr. Naushad Khan**, Professor, Department of Agronomy, CSAUA&T, Kanpur, U.P.  
(ii) **Dr. Khalil Khan**, SMS / Media Incharge, CSAUA&T, Kanpur, U.P.

*For further clarification please contact :*

**Dr. V. K. Chourasiya, SRF**

CAAST-NC Project  
Contact No. +91 9532630667  
Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

**Mr. Paras Kushwaha, SRF**

CAAST-NC Project  
Contact No. +91 8318127029  
Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

**Mr. Amit Singh, YP-I**

CAAST-NC Project  
Contact No. +91 7985699061  
Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)

*Note: Participants have to stay connected 15 min. Before start of the each session / e-lecture. To get e-certificate, online presence of candidates during the entire session is mandatory. Online certificate will be issued to participants after submission of their feedback Report.*



**NAHEP**



Mentoring Programme On  
**Personality & Communication  
Skills Development of PG Student**



Sponsored under  
NAHEP-ICAR, New Delhi



&

World Bank Funded Project  
CAAST-NC  
(Seed Production Component)

20<sup>th</sup> January 2020



## About the Institution

Chandra Shekhar Azad University of Agriculture & Technology, Kanpur is the leading agricultural institution of the country. University has strong foundation laid as early 1893. It was a pioneering Agriculture College, catering to the needs of agricultural education in pre-independence India. This institution continued its journey in independent India to achieve its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to the status of University in March, 1975. It has been serving the nation since last 114 years through its research, education and development of technology for farmers of the country. The university has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research needs of two agro-climatic zones of state of Uttar Pradesh namely, South-Western Semi-Arid and Central plain zones covering 22 districts of Uttar Pradesh with its seven colleges in which four Colleges (Agriculture, Horticulture, Agro-forestry and Home science) are located at HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. It has led to the evolution of individual ecosystem-specific agro-techniques. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture & Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

## CAAST-NC Seed Production Component

The Centre of Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project- Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national /international/private organizations and scaling up of capacity building of M. Sc. and Ph. D. Students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for the quality seed production of nutritional crops.

### About the Programme

Personality Development quintessentially means enhancing and grooming person's outer and inner self to bring about a positive change in life. Each individual has a distinct personality that can be developed,



polished and refined through effective Communication skills. The main objective of this programme is boosting confidence, improving communication skill and language speaking abilities, widening scope of knowledge, developing certain hobbies or skills, learning fine etiquettes and manners, adding style and grace to the way one looks, talks and walks and overall imbibing oneself with positivity, liveliness and peace. The programme is specifically designed for confidence building and interviewing skills development of postgraduate students to enhance listening and reading skills, speaking skills



and presentational skills for future employment.

### Target Group

M. Sc. and Ph. D. Students of Chandra Shekhar Azad University of Agriculture and Technology, Kanpur.

### Course Contents

The mentoring programme includes effective communication and interpersonal skills development for increasing future employment opportunities and to compete successfully in the business environment etc. The soft skill development play an important role in the overall personality development of post graduate and doctoral students by enhancing their career prospects, such as the effective use of English, business correspondence, presentations, team building, leadership, team management, group discussions, interviews, and inter-personal skills. This mentoring programme will enhance pleasant and appealing personality such as self-confidence, positive attitude, emotional intelligence, social grace, flexibility, friendliness and effective communication skills. In short, the entire mentoring programme will focus on six main areas: personality development, effective communication skill, individual development programme, professional grooming and confidence building & interviewing skill for future employment.

### Kanpur Climate during Programme

Kanpur has a hot semi-arid steppe climate. The day temperature during third week of January is expected not to exceed 25 °C and night temperature not drop below 10 °C. The cloud cover is mostly clear and

there is no precipitation during third week January. Light woollen clothes are generally advised.

### Objective

Personality development through enhancing communication skill, confidence building, professional grooming, individual development programme interviewing skills and inter-personal skills set of postgraduate students for future employment



### Programme Schedule

20<sup>th</sup> January 2020

Venue: CAAST-NC Committee Hall

09:00	<b>Registration</b>	
09:30	Welcome/ Get-together	
09:45	Inauguration Session	
10:45	High Tea	
<b>Technical Session</b>		
11:00-12:00	Confidence Building and Interviewing skills.	Ms. Shefali Raj MD, PSIT, Kanpur
12:00-13:00	Professional Grooming.	
13:00-14:00	Lunch	
14:00-15:00	Verbal & Non-Verbal Communication	Ms. Geetanjali Arora Trainer
15:00-16:00	Individual Development Programme	
16:00-17:00	Wrap Up of the Programme	



Patron in Chief

**Dr. Sushil Solomon**

Hon'ble Vice Chancellor

Chandra Shekhar Azad University of Agriculture and Technology, Kanpur



Course Director

**Dr. H. G. Prakash**

Director AES/ PI: CAAST-NC  
CSAUA&T, Kanpur

Course Coordinator

**Dr. C. L. Maurya**

Professor/ Co-PI: CAAST-NC  
CSAUA&T, Kanpur

Course Co-coordinator

**Dr. R. A. Yadav**

Professor, EBR  
CSAUA&T, Kanpur

Course Co-coordinator

**Dr. Khalil Khan**

Assistant Prof., Directorate of Research  
CSAUA&T, Kanpur



For further information please contact:

**Dr. V. K. Chourasiya, SRF**

CAAST-NC Project  
Contact No. +91 9532630667  
Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

**Mr. Paras Kushwaha, SRF**

CAAST-NC Project  
Contact No. +91 8318127029  
Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

**Mr. Amit Singh, YP-I**

CAAST-NC Project  
Contact No. +91 7985699061  
Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)





CSAU



The World Bank



ICAR

**NAHEP**

**National Training**

*on*

**Technological Interventions for Quality Seed**

**Production of Nutritional Crops**

**Sponsored under NAHEP - ICAR, New Delhi & World Bank Funded Project  
CAAST-NC : Seed Production Component**

23 - 24 October, 2019



**Chandra Shekhar Azad University of Agriculture & Technology, Kanpur**

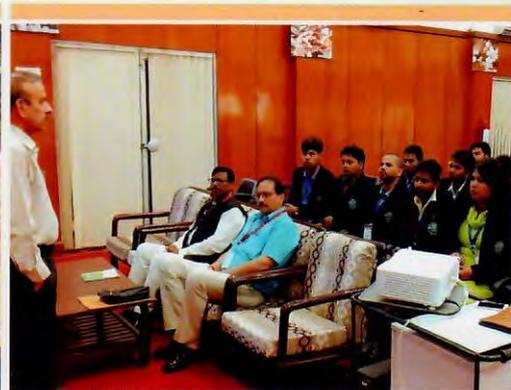
Chandra Shekhar Azad University of Agriculture & Technology, Kanpur is the premier agricultural institution of the country. University has a strong foundation laid as early 1893. It was pioneering Agriculture College, catering to the needs of agricultural education in pre-independence India. This institution continued its journey in independent India attaining its present status of university after several stage of metamorphosis - from School of Agriculture in 1893 to the status of University in 1975. The University's mandate today is to produce well-educated and trained manpower, develop high-yielding varieties of cereals, oil seeds, nutritional crops (pulses & vegetables) as well as basic and applied world-class agricultural research. The research in Agriculture, allied areas undertaking field and extension programme in its service area, spread over in 22 districts of Uttar Pradesh with its seven colleges in which four colleges (Agriculture, Horticulture, Agro-forestry, Home science) at Kanpur and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri. It has led to the evolution of individual ecosystem-specific agro - techniques. As the Mother of several ICAR institutions, CSAUA&T, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

### **CAAST-NC : Seed Production Component**

The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project-Indian Council of Agricultural Research, New Delhi. This project seek to establish partnership with national/international/private organizations and scaling up of capacity building of M.Sc. and Ph. D. students as well as faculties for enhancing their research and teaching capabilities. The project is aimed to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for the quality seed production of nutritional crops.

## About Training

The varied climate in India ensures the availability of nutritious grains and vegetables of excellent quality. India ranks first in the world's total pulse and 2<sup>nd</sup> in vegetable production. Despite, India is the importer of many pulses, in the globe. As per database published by Ministry of Agriculture & Farmers Welfare, during 2017-18 India has produced 24.51 MT of pulses and 311.7 MT of vegetables. Knowledge of the value of nutritious crops in our daily need for food and coincidental nutrition is required for both humans and animals. The main objective of this training is to develop capacity building of M.Sc. and Ph.D. students in area of seed quality attributes, management of seed production of nutritional crops and maintenance of seed quality during production & storage. The development of entrepreneurship for quality seed production of legumes and vegetable crops will assist in enhancing production and availability of quality seeds of nutritional crops which in turn will strengthen the prosperity of the farmers.



## Target Group

M. Sc. and Ph. D. Students of State Agricultural Universities.

## Course Contents

This includes basic and applied knowledge for quality seed production, seed processing, seed testing & seed storage of nutritional crops which will enhance the understanding and capacity building of the postgraduate students to be an entrepreneur in the field of seed business.

## Weather

Kanpur has a hot semi-arid steppe climate. During third week of October the expected temperature not to exceed 30°C and temperature not drop below 20°C. The cloud is mostly clear and there is no precipitation during last week of October.

## Objective

Capacity building through enhancing knowledge of postgraduate students for quality seed production of nutritional crops.

## Speakers

Sl.No.	Name	Designation
1.	Dr. Dinesh K. Agarwal	Director, ICAR- IISS, Mau (UP)
2.	Dr. S. Sithanatham	Director, SABRC, Chennai (TN)
3.	Dr. S N Sinha	Ex-Head, ICAR-IARI, RS, Karnal (Haryana)
4.	Dr. Ashwani Kumar	Principal Scientist, ICAR-IARI, RS, Karnal, (Haryana)
5.	Dr. V. B. Patel	Principal Scientist, ICAR- IARI, New Delhi
6.	Dr. Udit Narain	Ex-Professor, C.S. Azad University of Agriculture & Technology, Kanpur
7.	Dr. P. K. Katiyar,	Principal Scientist, ICAR- IIPR, Kanpur
8.	Dr. Udaya Bhaskar K.	Scientist, ICAR- IISS, Mau (UP)



### KEY PERSON

#### Dr. H. G. Prakash

Director, AES/ PI : CAAST-NC, CSAUA&T, Kanpur  
([directoraes@csauk.ac.in](mailto:directoraes@csauk.ac.in))

#### Dr. C. L. Maurya

Programme Co-ordinator  
Professor/ Co-PI : CAAST-NC, CSAUA&T, Kanpur  
([clmaurya@csauk.ac.in](mailto:clmaurya@csauk.ac.in))



### CONTACT PERSON

#### Dr. A.K. Sachan

Assistant Director  
Seed and Farm, CSAUA&T  
Contact No. +91 6393170234  
Email: [anilksachan63@rediffmail.com](mailto:anilksachan63@rediffmail.com)

#### Dr. Vinay Kumar Chourasiya

Senior Research fellow  
CAAST-NC Project  
Contact No. +91 9532630667  
Email: [vc3949@gmail.com](mailto:vc3949@gmail.com)

#### Mr. Paras Kushwaha

Senior Research fellow  
CAAST-NC Project  
Contact No. +91 8318127029  
Email: [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

#### Mr. Amit Singh

Young Professional-I  
CAAST-NC Project  
Contact No. +91 7985699061  
Email: [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)





CSAU

# N<sup>o</sup>HEP



ICAR

## National Training on

### Innovation in Seed production and Seed Processing Technology of Nutritional Crops

JANUARY 24 - 25, 2020

Sponsored Under

## N<sup>o</sup>HEP - ICAR, NEW DELHI

### CENTRE FOR ADVANCED AGRICULTURAL SCIENCE & TECHNOLOGY ON NUTRITIONAL CROPS



CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY, KANPUR - 208 002

## About the Institution

Chandra Shekhar Azad University of Agriculture & Technology, Kanpur is the leading agricultural institution of the country. University has strong foundation laid as early 1893. It was a pioneering Agriculture College, catering to the needs of agricultural education in pre-independence India. This institution continued its journey in independent India attaining its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to the status of university in March, 1975. It has been serving the nation since last 114 year through its research, education and development of technologies for farmers of the country. The University has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research needs of two agro-climatic zones of Uttar Pradesh namely, South-Western Semi-Arid and Central Plain Zone covering 22 districts of Uttar Pradesh with its seven colleges in which four colleges (Agriculture, Horticulture, Agroforestry, Home science) are located at university HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. It has led to the evolution of individual ecosystem-specific agro-techniques. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

## CAAST-NG: Seed Production Component

The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project- Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national /international/private organizations and scaling up of capacity building of postgraduate Students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for the quality seed production of nutritional crops.

## About the Training

A strong seed production programme can make agriculture more viable, profitable and sustainable. The quality seed is a critical and basic input for enhancing production and productivity of agri-horticultural crops. Use of quality seed alone can increase production by 15-20 per cent. Under optimum management with recommended input the productivity may increase up to 40-45 per cent. As we know food security is fundamental for any sort of progress and it is beyond doubt "Food security is impossible without seed security". Thus the pace of progress in food production is largely depend upon the progress of seed programme with which a country is able to multiply and market good quality seed of high yielding varieties with superior genetics. It is essential to make quality seed available to the farmers at the right place, in right time at affordable price to alleviate the farm production and livelihood of the farmers.

Undoubtedly, India has achieved phenomenal growth in the Indian seed sector as witnessed by quantum jump in quality seed production but still country has not reached to the desired level of seed replacement rate. Among the several factors, availability of qualified and trained manpower are the key factor for sustained growth of the seed industry. Keeping the fact in view, present training is being organized to develop capacity building of postgraduate students in area of quality seed production of nutritional crops. The training is specifically designed for increasing knowledge set in the field of innovative techniques of seed production, seed processing, plant protection, high throughput process and innovative technologies of seed quality enhancement in nutritional crops.



### Target Group

M. Sc. and Ph. D. Students of different universities and colleges viz. CSAUA&T, Kanpur, NDUA&T, Ayodhya, SVBPUA&T, Merrut, SHUATS, Prayagraj, Brahmanand PG College, Rath, Rama University, Kanpur and CSJMU, Kanpur.

### Course Contents

Future agricultural production will largely depend upon development of improved varieties/hybrids in nutritional crops supported by efficient cost effective seed production technologies. Diversification of areas for quality seed production and development of appropriate seed processing technology needs to be focused for enhancing quality seed production of nutritional crops. Present training programme includes enhancing basic and applied knowledge of postgraduate students in the field of innovative approaches for quality seed production, processing and seed quality enhancement of nutritional crops. In short, the entire training programme will focus on five main areas: quality seed production, insect-pest management, seed processing, seed quality enhancement of nutritional crops and IPR issues related to agricultural innovations.

### Kanpur Climate during Programme

Kanpur has a hot semi-arid steppe climate. The day temperature during third week of January is expected not to exceed 25 °C and night temperature not drop below 10 °C. The cloud cover is mostly clear and there is no precipitation during third week January. Light woollen clothes are generally advised.

### Objective

Enhancing basic and applied knowledge of post graduate students for capacity building in the area of innovative approaches for quality seed production, seed processing and seed quality enhancement of Nutritional crops.

# Training Schedule

24/01/2020

09:00	Registration: CAAST-NC Committee Hall
10:00	Inaugural Session
10:45	High Tea

## Technical session

11:00-12:00	Current scenario and future strategies for quality seed production of pulses	Dr. A. K. Singh, PS, IIPR, Kanpur
12:00-13:00	Disease Management for quality seed production of nutritional crops.	Dr. Mohammad Akram, PS, IIPR, Kanpur.
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Innovative approaches for Quality Seed Production of Nutritional Crops (Vegetables) under protected cultivation technology	Dr. Sudipta Basu, PS, IARI, New Delhi.
15:00-16:00	IPR in Agricultural Innovations	Dr. Sujeet Yadav, Scientific Officer UPCAR, Lucknow
16:00-17:00	<b>Visit to museum and seed production plot.</b>	

## Technical session

25.01.2020

10:00-11:00	Present status and emerging prospects in management of insect pests of nutritional crops (pulses).	Dr. Sujayanand, Senior Scientist IIPR, Kanpur
11:00-12:00	Seed quality enhancement through innovative techniques.	Dr. K. V. Sripathy, Scientist ICAR, IISS, Mau.
12:00-13:00	Upgradation of Seed Quality of nutritional crops through innovative post-harvest operations.	Er. Manoj Vishkarma NSRTC, Varanasi.
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Innovations in production of planting material of vegetable crops	Dr. A. B. Singh, Principal Scientist IIVR, Varanasi.
15:00-16:00	Innovations in quality seed production of vegetable crops	Dr. P. M. Singh, HOD, Seed Division IIVR, Varanasi.
16:00-17:00	<b>Warp up of the programme</b>	

Patron in Chief

**Dr. Sushil Solomon**

Hon'ble Vice Chancellor

Chandra Shekhar Azad University of Agriculture and Technology, Kanpur - 208 002

Course Director

**Dr. H. G. Prakash**

Director AES/ PI:CAAST-NC  
CSAUA&T, Kanpur - 208 002

Course Coordinator

**Dr. C. L. Maurya**

Professor/ Co- PI:CAAST-NC  
CSAUA&T, Kanpur - 208 002

Course Co-coordinator

For further information please contact:

**Dr. R. A. Yadav**

Professor  
EBR  
CSAUA&T, Kanpur

**Dr. Khalil Khan**

Assistant Professor  
Directorate of Research  
CSAUA&T, Kanpur

**Dr. V. K. Chourasiya, SRF**

CAAST-NC Project  
Contact No. +91 9532630667  
Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

**Mr. Amit Singh, YP-I**

CAAST-NC Project  
Contact No. +91 7985699061  
Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)

**Mr. Paras Kushwaha, SRF**

CAAST-NC Project  
Contact No. +91 8318127029  
Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)





**NHEP**

# Short Course

On

**Application of Modern Technology in Seed Production, Seed Processing & Seed Quality Enhancement of Nutritional Crops**

Sponsored Under

**ICAR, NEW DELHI FUNDED PROJECT**

**CENTRE FOR ADVANCED AGRICULTURAL SCIENCE & TECHNOLOGY ON NUTRITIONAL CROPS**



**March 13-19, 2020**

**CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY, KANPUR-208 002**

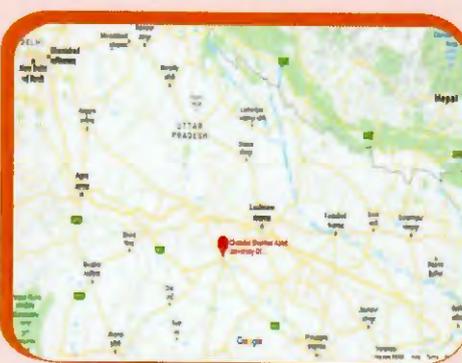
## About the Institution

Chandra Shekhar Azad University of Agriculture & Technology, Kanpur is the leading agricultural institution of the country. University has strong foundation laid as early 1893. It was a pioneering Agriculture College, catering to the needs of agricultural education in pre-independence India. This institution continued its journey in independent India attaining its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to the status of university in March, 1975. It has been serving the nation since last 114 year through its research, education and development of technologies for farmers of the country. The University has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research needs of two agro-climatic zones of Uttar Pradesh namely, South-Western Semi-Arid and Central Plain Zone covering 22 districts of Uttar Pradesh with its seven colleges in which four colleges (Agriculture, Horticulture, Agroforestry, Home science) are located at university HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. It has led to the evolution of individual ecosystem-specific agro-techniques. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.



## About Kanpur

Kanpur formerly known as Cawnpore city lies in the lower Gangatic plain-Yamuna Doab on the Ganges (Ganga) River, about 80 km South/West of Lucknow. Believed to be founded by Hindu king Raja Kanh Deo of the erstwhile state of Sachendi, Kanpur was originally known as Kanhpur. Kanpur is the biggest city of the state and is the main centre of commercial and industrial activities. Formerly it was known as Manchester of India. Now it is the commercial capital of Uttar Pradesh. It is situated on the most important national highways no. 2 and 25, the main Delhi-Howrah railway trunk line & at the bank of the holy river Ganga. It is about 125 m above MSL. Presently civilian air-service to different part of the country is available from the city airport at Ganesh Shankar Vidyarthi Airport, Chakeri (Kanpur). The other nearest civilian airport Amausi (Lucknow) is 80 km away from Kanpur. Frequent rail services are there in the route connecting Lucknow with Kanpur as well as Delhi with Kanpur (438 km). CSA University is located at 8.4 km North-West of Kanpur Central railway/bus station is well connected by





**BITHOOR**



**GANGA BARRAGE**



**ISKCON TEMPLE**

road, the mode of conveyance being auto-rickshaw and taxi. Some of the must-see places in Kanpur include the Allen Forest Zoo, Jain Glass Temple, Kanpur Gardens, Shri Radhakrishna Temple, Green Park Stadium and holy place Bitthoor.

### CAAST-NC: Seed Production Component

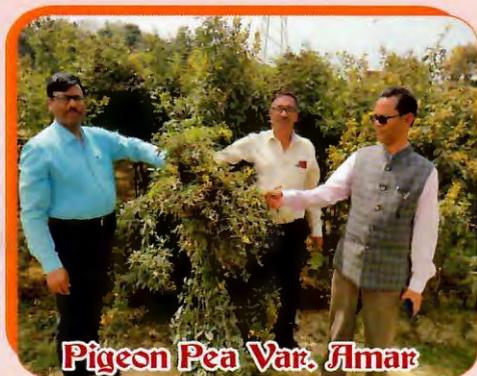
The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project-Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national /international/private organizations and scaling up of capacity building of postgraduate students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for the quality seed production of nutritional crops.

### About the Short Course

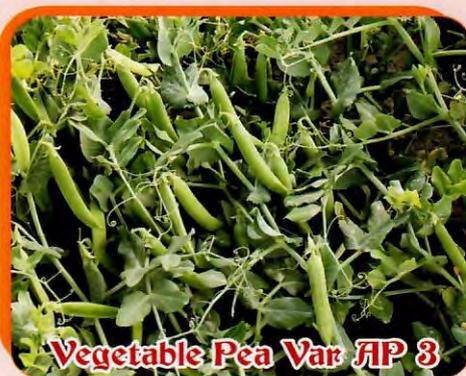
Seed is the decisive input for sustained agriculture production and is paramount for realizing the potential of all other inputs without which the investment on inputs such as fertilizer, water, and pesticides will not pay desired dividends to the farmers. Good quality seed is the vehicle of innumerable technologies to carry the advantages of such varieties to the end users. Use of quality seeds of improved varieties alone could increase productivity by 20-25% indicate the critical role of seed in agriculture. Hence, the quality status of seed is of critical importance to the seed producers as well as the farmers.

Though India is the largest producer (around 25% of global production), it however, consumes 27% and imports around 14% of its pulses requirements. The yield of pulses in India is quite low at 781 kg/ha which might be due to unavailability of good quality seed and policy neglect. For any successful quality seed programme, it is mandatory to produce sufficient quantity of seed with appropriate research backup on various aspects of seed technology viz., production research, maintenance, quality assurance, processing, storage, quality enhancement etc. Future of nutritional crops production will largely depend

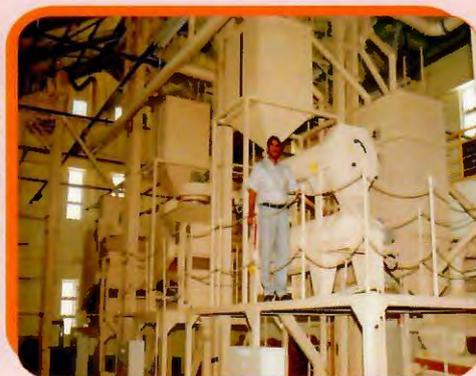




**Pigeon Pea Var. Amar**



**Vegetable Pea Var. AP 3**



upon development of improved varieties/ hybrids in various crops, supported by efficient, cost effective seed production technologies. Development and adoption of new seed production technologies and identification of alternative/specific areas for quality seed production are the key factor to enhance the total availability of quality seed to the farmers.

Both public and private sectors made significant achievements in seed technology research & seed production. Public sector contributed immensely to the standard seed production enhancement technologies whereas private seed sector is slightly ahead with ultra modern seed processing, seed storage and seed quality enhancement technologies. Private sectors concerned with low volume-high value crops, however public sectors taking care off for seed production of high valume-low value crops alongwith high value-low volume crops under social obligation.

Thorough pondering is needed on aspects such as development of climate resilient seed production technologies, identification of alternative provenances to tackle climate change, standardization of seed testing and quality assurance protocols, research on flowering synchronization and seed maturation (especially in Pigeon pea hybrids as they are future game changers), more sophistication in seed processing (thermo seed treatment technology), quality enhancement (second and third generation enhancement strategies), packing and handling, due importance to informal seed system (upgrading quality of farm saved seed), technology dissemination, capacity building and Public Private Partnership (PPP) approach for boosting up quality seed production of nutritional crops.



**Lentil Var. KLS 09-3**

### Eligibility

Postgraduate students and faculty not above the rank of Assistant Professor from Seed Science & Technology and Genetics and Plant Breeding discipline of CSA University, Kanpur and other Agricultural university of India are eligible for this short course. There are 50 seats available for which will distributed among the above mention discipline. Postgraduate students interested in attending this short course have to submit their application at the Seed Science & Technology Department, CSAUA&T, Kanpur.

### Registration Fee

The short course is sponsored under the NAHEP-CAAST-NC sub component, therefore the registration fees stands exempted. However, participants would have to furnish a copy of their university/ college ID at the time of registration or a certificate from their Dean/registrar indicating their enrolment in the respective university.



## Duration

This is a 7 days residential course which includes interactive lectures, demonstration and exposure visit of Seed Production Plots & Protected Cultivation Centre, Kannauj and CISH, IISR & CIMAP, Lucknow.

## Accommodation

Accommodation in the University guest house premises will be made available on first come first serve basis.

## Target Group

M. Sc., Ph. D. Students and faculty (not above the rank of Assistant Professor) from Seed Science & Technology and Genetics & Plant Breeding discipline of different Agricultural Universities of the country.

## Course Contents

India has the second largest population which is forecasted to grow from the current 1.38 to 1.73 billion by 2050. This would lead the twin problems, food and nutritional security to a huge population of the country. Nutritional crops continue to be an important ingredient of human diets specially the large vegetarian population in the country. This coupled with the increasing population resulted in reducing per capita availability of pulses & vegetables to the masses. It is well known that seed security ensures food security and food security ensures national security. The content of present short course programme is designed to enrich the basic and applied knowledge of postgraduate students in field of innovative approaches for quality seed production, processing, storage and quality enhancement of nutritional crops so that they can address the challenges of quality seed production for achieving seed security in particular and national security in general. The prime objectives of this short course is capacity building of postgraduates students and faculties in field of stored insect-pest, concept of seed vigour and its role, recent techniques inquire genetic purity of hybrid, quere of seed borne pathogen and Intellectual property rights and its importance in crop improvement. In short, the entire short course programme will revolve around five major area; quality seed production, processing, storage, quality enhancement technologies and seed policy.



## Kanpur Climate during Programme

Kanpur has a hot semi-arid steppe climate. The day temperature during 13-19 March is expected not to exceed 35°C and night temperature not drop below 24°C. The cloud cover is mostly clear and there is no precipitation during 13-19 March.

## Objective

Imparting fundamental & applied knowledge to post graduate students for capacity building in the field of innovative approaches of quality seed production, processing, storage & seed quality enhancement of nutritional crops.



**Mungbean Var. Sweta**

## Programme Schedule

Day One: 13 <sup>th</sup> March 2020	
9:00	<b>Registration</b>
10:00	<b>Ice Breaking Session</b>
11:00	<b>Inauguration Session</b>
11:45	<b>High Tea</b>

Technical Session		
12:00-13:00	Importance of Quality Seed in Agriculture, Seed Multiplication System and Seed Quality control in India	Dr. R. K. Choudhary Ex-Project Co-ordinator (NSP)
13:00-14:00	Pollination Dynamics for Quality Seed production of vegetable crops.	Dr. Sudipta Basu, PS, IARI, New Delhi
14:00-15:00	<b>Lunch</b>	
15:00-16:00	Management of Insect Pests in pulses.	Dr. R. K. Mishra, Senior Scientist IIPR, Kanpur
16:00-17:00	Seed quality : Concept and Management	Dr. V. Sankaran, Ex- GM, Production, NSC, New Delhi
17:00-18:00	Visit and Introduction to University Museum	Dr. A. K. Singh, Incharge, Museum,

Day Three: 14 <sup>th</sup> March 2020		
10:00-11:00	Weed Management for Quality Seed Production of Nutritional Crops	Dr. R. A. Yadav, Professor CSAUAT, Kanpur
11:00-12:00	Partnership in Seed Programmes	Dr. V. Sankaran, Ex- GM, Production, NSC, New Delhi
12:00-13:00	Seed Entrepreneurship Development: Small Scale Business modeling	Dr. Ranjit Kumar, Head Business Management-NAARM, Hyderabad
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Recent Advances in Post-harvest Technology in India	Dr. Indramani Misra, Head, Div. of Agril. Engineering, IARI, New Delhi
15:00-17:00	Visit to Protected Cultivation and Seed Production Farm, Vegetable Research Station, Kalyanpur, Kanpur	Dr. Rajiv Kuamr, Vegetable Scientist, CSAUAT, Kanpur
Day Third: 15 <sup>th</sup> March 2020		
<b>Visit to Protected Cultivation Centre at Kannauj</b>		

**Day Four: 16<sup>th</sup> March 2020**

10:00-11:00	Advances in Seed Storage	Dr. S. N. Sinha, Ex- Head IARI, RS, Karnal
11:00-12:00	Modeling Seed Drying for Better Seed Quality and Longevity	Dr. J. P. Sinha, PS, Farm Machinery Unit, IARI, New Delhi
12:00-13:00	Seed Technological Constraint and Gaps in Seed Production of Pulses	Dr. R. P. Katiyar, Ex - Director Research, CSAUAT, Kanpur
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Use of Information & Communication Technologies (ICTs) in Seed Production Programme	Dr. Vijay K. Kurnalliker, Asst. Professor, UAS, Raichur, Karnataka
15:00-16:00	Seed Production Technology for Hybrid Pigeon Pea	Dr. Ravi Hunge, Professor, UAS, Dharwad
16:00-17:00	Visit to Bio-control Lab CSAUA&T, Kanpur	Incharge Bio-control Lab

**Day Five: 17<sup>th</sup> March 2020****Exposure Visit to CISH, & CIMAP, Lucknow****Day Six: 18<sup>th</sup> March 2020**

09:00-10:00	Importance of Seed Treatment for Crop Health Management	Dr. Ajanta Birah, PS, NRC-IPM, New Delhi
10:00-11:00	Protected Cultivation for Seed Production of High Value Nutritional Crops	Dr. Neelam Patel, Incharge, Protected Cultivation Unit, IARI, New Delhi
11:00-12:00	Concept of Seed Vigour and its Role in Increasing Productivity	Dr. Malvika Dadlani, Ex-JDR, IARI, New Delhi
11:00-12:00	Detection of Seed Borne Fungal Pathogen and their Control in Pulse and Vegetable Crops	Dr. S. R. Niranjana, Ex-Vice Chancellor, Mysore University, Karnataka
12:00-13:00	Concept of Variety Maintenance and Maintenance Breeding	Dr. S. K. Chakravarty, PS, IARI, New Delhi
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Insect Pest of Major Vegetables and their Management	Scientist from IIVR, Varanasi
15:00-16:00	Knowledge/Aptitude Test	Participants
16:00-17:00	Visit to Seed Production Farm, Nawabganj, Kanpur	Farm Manager, CRF, Nawabganj

**Day Seven: 19<sup>th</sup> March 2020**

10:00-11:00	Intellectual Property Rights and their Relevance in Crop Improvement	Dr. S. Mauria Ex-Assistant Director General, ICAR, New Delhi
11:00-12:00	DNA Based Markers and their Applications in Quality Seed Production	Dr. Amrapali K Akhare, Prof. PDKV, Akola, Maharashtra
12:00-13:00	Indian Seed Industry: An overview	Dr. R. R. Hanchinal, Ex-Chairman, PPV & FR, New Delhi
13:00-14:00	<b>Lunch</b>	
14:00-15:00	Filling of Feedback Questionare	Participants
15:00- Onward	<b>Valedictory Function/ Wrap up of the course</b>	

## Patron in Chief



**Dr. D. R. Singh**

Hon'ble Vice Chancellor

Chandra Shekhar Azad University of Agriculture and Technology, Kanpur-208 002

**Dr. H.G. Prakash**

Course Director

Director AES/ PI: CAAST-NC  
CSAUA&T, Kanpur-208 002

**Dr. C.L. Maurya**

Course Coordinator

Professor/ Co-PI: CAAST-NC  
CSAUA&T, Kanpur-208 002

**Dr. R. A. Yadav**

Course Co-coordinator

Professor, EBR  
CSAUA&T, Kanpur - 208 002

**Dr. A. K. Sachan**

Course Co-coordinator

Assistant Director, S&F  
CSAUA&T, Kanpur - 208 002

### SRF/YP of CAAST-NC Project Associated for organizing Short Course Programme

**Dr. V. K. Chourasiya , SRF**

Contact No. +91 9532630667  
Email. vc3949@gmail.com

**Mr. Paras Kushwaha, SRF**

Contact No. +91 8318127029  
Email. parasagri0@gmail.com

**Mr. Amit Singh, YP-I**

Contact No. +91 7985699061  
Email. singhamit0601@gmail.com

### Student Associated

**Ms. Pratiksha Singh**

Ph. D. Scholar  
Seed Science & Technology  
CSAUA&T, Kanpur-208 002

**Mr. Rishabh Kumar Singh**

Ph. D. Scholar  
Seed Science & Technology  
CSAUA&T, Kanpur-208 002

**Mr. Maneesh Kumar**

Ph. D. Scholar  
Seed Science & Technology  
CSAUA&T, Kanpur-208 002





## Brainstorming Session

on

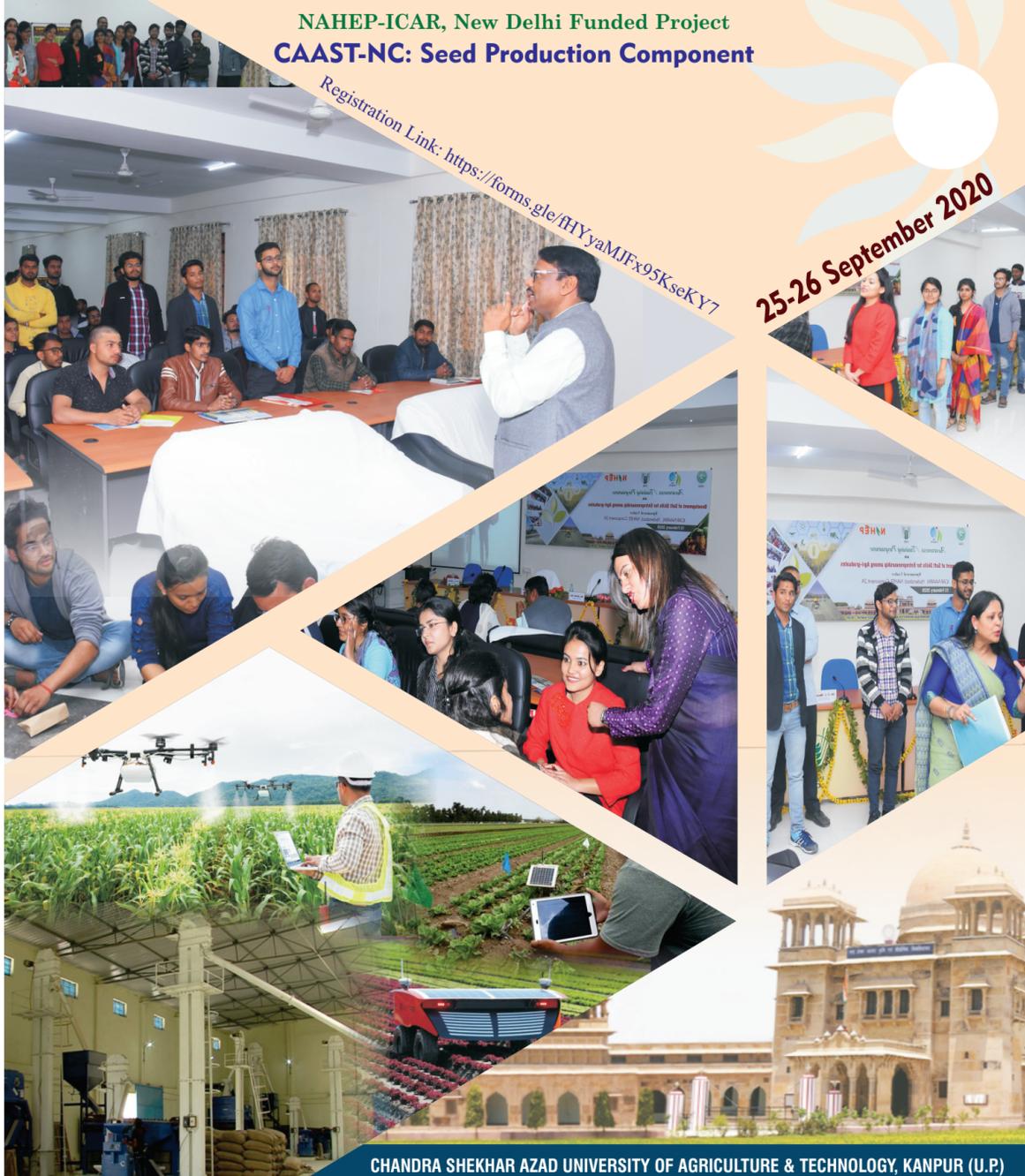
### Communication Skills Development for Seed Entrepreneurship

Sponsored under

NAHEP-ICAR, New Delhi Funded Project  
CAAST-NC: Seed Production Component

Registration Link: <https://forms.gle/fHYyaMJF95KseKY7>

25-26 September 2020



CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY, KANPUR (U.P.)

#### About the University

C. S. Azad University of Agriculture and Technology, Kanpur is the leading agricultural institution of the country and having strong foundation laid as early 1893. This institution continued its journey in independent India attaining its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to status of university in March 1975. The University serving the nation since last 114 year through research, education and development of technologies for farmer of the country. The University has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research need of South-Western Semi-Arid and Central Plain zones covering 22 districts of Uttar Pradesh with its seven colleges in which four colleges (Agriculture, Horticulture, Agroforestry and Home Science) are located at university HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

#### About the Project

The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project-Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national/international/private organizations and scaling of capacity building of postgraduate students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for quality seed production of nutritional crops.

#### About the e-Brainstorming

The productive harvest is highly relying on the availability of quality seeds. The Indian seed market reached a value of US\$ 4.8 Billion in 2019, exhibiting a double-digit growth during 2014-2019. This could have been possible due to untiring endeavour of public and private seed players of the country. Approximately 600 private players are involved in seed business in our country and still there is a huge scope of initiating new seed ventures for our passing out agri-students because there is a dire need of quality seeds of agri-horti crops to fetch desired level of production and productivity. Realizing the importance of availability of quality seed to the farmers in adequate quantity, the government policies geared towards promoting and fostering entrepreneurship of new entrepreneurs to create sustainable new seed ventures.

To be a successful either entrepreneur or employee of any organisation, one should possess a set of skills/attributes which helps in achieving the organisational goals in due course of time by overcoming day to day hindrances arising in the way of organisational performance of the many attributes, an inevitable attribute is the ability to communicate. Communication occurs daily in our society through conversations either face to face, on the phone, Internet, letter and host of other means. The significance of communication is very crucial to the continued understanding, cooperation and development in society, organisation and entrepreneurial ventures. Effective communication in any entrepreneurship is important for decision making and successful functioning. Thus communication skills play a pivotal role in grooming of professional career, entrepreneurship and venture seeking.

On one side our agricultural education is tailor-made to manufacture job seekers; not job creators, on the other there is hardly any provision for nurturing communicative competency. UNESCO rightly pointed out that developing entrepreneurial skill should become major concerns of higher education in order to facilitate employability of graduates. Unfortunately, developing communication skills are being given the least importance at graduation levels in agricultural universities. Surprisingly, communication is taught as a subject in one or two semesters only. The condition is no different at post-graduation level too. This is one of the major reasons why most of student coming out of institutions are weak in their communication skill. In view of above, the present brainstorming session is designed to foster the communication skills of PG students to make them ready for industry/organisation and to be a successful entrepreneur.

#### Target Audience

Students [M.Sc. (Ag)/M.Tech./M.H.Sc./Ph.D./MBA-ABM] are eligible to register and are requested to take advantage of the brainstorming session during the Covid-19 lockdown period. The students currently pursuing their degree programme will be preferred.

#### Registration

The e-training will be available to 250 registered eligible candidates. Preference will be given to the candidate first come first serve basis.

The link for the online registration is: <https://forms.gle/fHYyaMJF95KseKY7>

Or use QR code provided here.

Registration is opened till **23 September, 2020 upto 5:00 pm**

**There is no registration fee for e-Brainstorming session.**



#### About the Selection

The WhatsApp group of the selected candidates will be formed at least one day before the start of the e-brainstorming session and the communication regarding the e-brainstorming session will be posted in the group.

Lectures through online platform will be conducted along with online interaction. The link/Id for joining the session will be communicated through WhatsApp group/email of selected candidates on **24 September 2020**.

Patron



**Dr. R.C. Agrawal**  
DDG (Education) & National Director  
NAHEP, ICAR, New Delhi

Patron



**Dr. D. R. Singh**  
Vice-Chancellor  
CSAU&T, Kanpur

Guest Speaker



**Dr. B. Kumar**  
Ex-Professor/Scholar-In-Residence  
RPCAU, Pusa, Samastipur, Bihar

Guest Speaker



**Dr. Lakshmi Mantha**  
Assistant Professor  
Osmania University, Hyderabad



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



**Dr. H. G. Prakash**  
Director Research  
CSAU&T, Kanpur



**Dr. C. L. Maurya**  
Professor/Course Director  
CSAU&T, Kanpur

For further clarification please contact :

**Dr. V. K. Chourasiya, SRF**

CAAST-NC Project  
Contact No. +91 9532630667  
Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

**Mr. Paras Kushwaha, SRF**

CAAST-NC Project  
Contact No. +91 8318127029  
Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

**Mr. Amit Singh, YP-I**

CAAST-NC Project  
Contact No. +91 7985699061  
Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)

**Note:** Registered candidates have to stay connected 15 min. before start of the each session/e-lecture. To get e-certificate, online presence of candidates during the entire session is mandatory. Online certificate will be issued to registered candidates after submission of their feedback Report.



30<sup>th</sup>  
January  
2021

ONLINE ESSAY COMPETITION  
ON

# Innovations in Quality Seed Chain Management

Organized under the Aegis

NAHEP-ICAR, New Delhi Funded Project

CAAST-NC: Seed Production Component

Chandra Shekher Azad University of Agriculture  
And Technology, Kanpur - 208 002

## Details of Online Essay Competition

- Essay competition is open for all students and faculties of Plant Science and horticulture group from recognized Agricultural Universities, Institutions and colleges of India.
- The essay competition will be conducted online.
- The participants may register himself/herself on google link which will remain active up to 26<sup>th</sup> January 2021 (24 hrs).
- 300 seats for eligible candidates are available. The candidates will be selected on first come first serve basis.
- Essay competition will be held on 30<sup>th</sup> January 2021 and examination link will remain active for 3:00 hrs. between 12:00 to 15:00 only. The link will be communicated to participants on 29<sup>th</sup> January 2021 through whatsapp group.
- Candidates secure more than 50% marks will be provided participation certificate. However, top 3 rankers will be provided certificate of merit.
- The name of candidate and organization in the registration form and on essay examination link both should be alike or otherwise candidature will be cancelled.
- Legible manuscript will be accepted only. The participants are advised to answer on A4 size plain paper and upload PDF copy of the same in single file on the provided essay examination link.
- The essay shall be no longer than 3000 words and no shorter than 1500 words. Essay may be written either in English or Hindi language.
- Answer should be given in standard format like Introductory paragraph, main body paragraph and concluding paragraph.
- **Registration Link** : <https://forms.gle/hMooGFX2tKc3tbTO9>

## Target Audience

M.Sc. & Ph.D. Students and faculties of Plant Science Group (Genetics & Plant Breeding, Seed Science & Technology, Plant Pathology and Plant Genetic Resources) and Horticulture group (Vegetable Science/Olericulture; Fruit Science/Pomology; Horticulture; Spices, Plantation, Medicinal and Aromatic Plants and Post Harvest Technology)

## About the Selection

The WhatsApp group of the selected candidates will be created at least one day before the start of the essay competition & the essay competition link will be posted in the group on 29<sup>th</sup> January 2021. Keep watching your WhatsApp.



Patron

**Dr. R. C. Agrawal**

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



Patron

**Dr. D. R. Singh**

Vice Chancellor  
CSAUA&T, Kanpur



National Convener

**Dr. Prabhat Kumar**

NC (CAAST & Component-2)  
NAHEP-ICAR, New Delhi



Chairman

**Dr. H. G. Prakash**

Director Research  
CSAUA&T, Kanpur



Organizing Secretary

**Dr. C. L. Maurya**

Professor/Co-PI  
CSAUA&T, Kanpur

For any query

Mr. Paras Kushwaha, SRF  
Mob.: +91 8318127029  
Dr. V. K. Chourasiya, SRF  
Mob.: +91 9532630667



REGISTRATION

Jury for Evaluation:

Dr. H. G. Prakash, Director Research  
Dr. Rajiv, Assistant Professor

Dr. C. L. Maurya, Professor  
Dr. Sweta, Assistant Professor

Dr. Lokendra Rathj, Associate Professor  
Dr. H. C. Singh, Assistant Professor



**Scaling up of Knowledge Domain and Entrepreneurial Skill Development of Post Graduate Students and Budding Scientists for Quality Seed Production and Seed Quality Enhancement"**

**CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY**  
**Kanpur-208 002 (UP), India**  
[www.csaug.ac.in](http://www.csaug.ac.in)

**About the Institution**

C. S. Azad University of Agriculture and Technology, Kanpur is the leading agricultural institution of the country and having strong foundation laid as early 1893. This institution continued its journey in independent India attaining its present status of university after several stages of metamorphosis- from the School of Agriculture in 1893 to status of university in March 1975. The University serving the nation since last 114 year through research, education and development of technologies for farmer of the country. The University has mandate of planning, execution, monitoring, co-ordination, evaluation and impact assessment of research programmes across the faculties to cater the research need of South-Western Semi-Arid and Central Plain zones covering 22 districts of Uttar Pradesh with its seven colleges in which four college (Agriculture, Horticulture, Agroforestry and Home Science) are located at university HQ (Kanpur) and three colleges (Fisheries, Dairy Technology and Agricultural Engineering) at Etawah campus. A second college of Agriculture is also established at Lakhimpur Kheri, Uttar Pradesh. As the mother of several ICAR institutions, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur continues to serve as the leading organization for agricultural studies, research and extension in the country.

**About the Project**

The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project-Indian Council of Agricultural Research, New Delhi. This project seeks to establish partnership with national/international/private organizations and scaling of capacity building of postgraduate students as well as faculties for enhancing their research and teaching capabilities. The project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for quality seed production of nutritional crops.

**About National e-Training**

India has the second largest population which is forecasted to grow from the current level of 1.38 to 1.73 billion by 2050. This would lead the twin problems, food and nutritional security to a huge population of the country. It is well known that seed security ensures food security and food security ensures national security. Seed is the decisive input for sustained agriculture production and is paramount for realizing the potential of all other inputs without which the investment on inputs such as Fertilizer, water and pesticides will not play desired dividends to the farmers. Good quality seed is the vehicle of innumerable technologies to carry the advantages of varieties to the end users. After the release of varieties, seed multiplication is most essential and prerequisite activity for ensuring the continuous availability of quality seed of improved varieties to farmers at affordable prices and at appropriate time. Quality seeds are being made available to the client by public and private sectors. About 55 per cent of the total available seeds is being produced by private sectors which reflect an ample scope for start-up in the area of quality seed production and seed business.

It is well known fact that there is a mismatch between the number of agricultural postgraduates passing out each year to the availability of jobs in agriculture sector. To make the budding human resources job provider rather than job-seeker, it is imperative to let them acquire knowledge and skills required for seed production and seed quality enhancement so that they can start their own seed business. Considering the fact, the current national e-training aimed to impart teaching of technological interventions for quality seed production, seed quality enhancement and enhancing learning habits and developing business model for initiating seed enterprises.

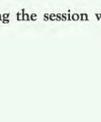
**Target Audience**

Students (currently pursuing M.Sc./Ph.D./MBA-ABM) of discipline of Seed Science and Technology, Genetics and Plant Breeding, Agronomy, Vegetable Science, Plant Pathology, Entomology and budding scientists are eligible to register and are requested to take advantage of the e-training during the Covid-19 lockdown period. Passed out students are not eligible for registration.

**Registration**

The e-training will be available to 100 registered eligible candidates (50 candidates of CSAUA&T, Kanpur and 50 candidates of other university/institution. If the seat is falling vacant in either of the category, shall be filled mutually). Preference will be given to the candidate first come first serve basis.

The link for the online registration is: <https://forms.gle/GXpxBbVSM32EF168A>  
 Or use QR code provided here.



Registration is opened till 23 August, 2020 (24 hrs.)  
 There is **no registration fee** for e-training.

**About the Selection**

The WhatsApp group of the selected candidates will be formed at least one day before the start of the e-training and the communication regarding the e-training will be posted in the group.  
 Lecture through online platform will be conducted along with online interaction. The link/Id for joining the session will be communicated through WhatsApp group of selected candidate on 24 August 2020.

*Patron*



**Dr. R.C. Agrawal**  
National Director  
NAHEP, ICAR, New Delhi

*Patron*



**Dr. D. R. Singh**  
Vice-Chancellor  
CSAUA&T, Kanpur

*Chief Guest*



**Dr. D. K. Yadav**  
Assistant Director General (Seeds)  
ICAR, New Delhi

*Chairman*



**Dr. S. Rajendra Prasad**  
Vice-Chancellor  
UAS, Bangalore (Karnataka)



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



**Dr. H. G. Prakash**  
Director Research  
CSAUA&T, Kanpur



**Dr. D. R. Singh**  
Dean, CoA  
CSAUA&T, Kanpur



**Dr. C. L. Maurya**  
Course Coordinator  
CSAUA&T, Kanpur



**Shri Parvej Alam**  
Course Co-Coordinator  
CSAUA&T, Kanpur

*For further clarification please contact :*

**Dr. V. K. Chourasiya, SRF**  
CAAST-NC Project  
Contact No. +91 9532630667  
Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

**Mr. Paras Kushwaha, SRF**  
CAAST-NC Project  
Contact No. +91 8318127029  
Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

**Mr. Amit Singh, YP-I**  
CAAST-NC Project  
Contact No. +91 7985699061  
Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)

**E-Training Schedule**

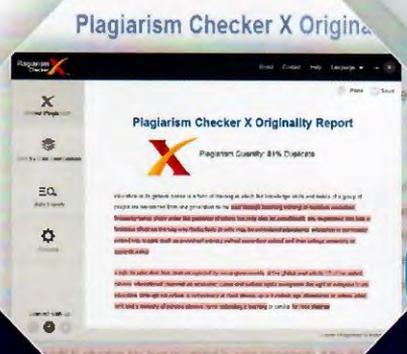
25 August, 2020			
Inaugural Session			
10:30-11:00		Joining of Participants	
11:00-11:10	Welcome Address	Dr. Hargyan Prakash, Director Research, CSAUA&T, Kanpur	
11:10-11:20	About e-Training	Dr. C. L. Maurya, Course Co-ordinator	
11:20-11:35	Inaugural Address	Dr. D. K. Yadav, ADG, (Seeds) ICAR, New Delhi and Hon'ble Chief Guest of the Event	
11:35-11:50	Chairman's Remarks	Dr. S. Rajendra Prasad, Hon'ble Vice Chancellor, UAS, Bangalore (Karnataka) & Chairman of the Event	
11:50-12:00	Vote of Thanks	Dr. D.R. Singh, Dean College of Agriculture	
Technical Session			
Date and Time	Name of Speaker	Topic	Speaker
25 August, 2020 14:00-15:00	Dr. D. K. Yadav ADG, (Seeds) ICAR New Delhi	Indian Seed Industry: Opportunities and Challenges	
26 August, 2020 12:00-13:00	Dr. Ranjit Kumar Head Business Management NAARM, Hyderabad	Seed Entrepreneurship Development: Small Scale Business Modelling	
26 August, 2020 15:00-16:00	Dr. S. Rajendra Prasad VC, UAS Bangalore (Karnataka)	Quality Seed Production and Marketing through Public Private Partnership	
27 August, 2020 11:00-12:00	Dr. Indramani Mishra Head Div. of Agril. Engineering IARI, New Delhi	Recent Advances in Post-Harvest Technology in India	
27 August, 2020 12:00-13:00	Dr. Arvind Nath Singh Director, ICAR-IISS Mau, Uttar Pradesh	Role of Seed Testing and Human Resource Development in Achieving Seed Security	
27 August, 2020 15:00-16:00	Dr. Ajanta Birah PS, NRC-IPM New Delhi	Importance of Seed Treatment for Crop Health Management	
28 August, 2020 11:00-12:00	Dr. D. K. Agarwal Ex-Director, ICAR-IISS Mau (UP)	Management of Quality Seed Production in Entrepreneurial Way	
28 August, 2020 12:00-13:00	Dr. RR Hanchinal Ex-Chairman, PPV&FR New Delhi	Seed Bill 2019: Relevance, Issues and Concern	
29 August, 2020 11:00-12:00	Dr. K. V. Sripathy Scientist, ICAR-IISS Mau	Nanomaterials: A New Vistas for Seed Quality Enhancement	
29 August, 2020 12:00-13:00	Dr. Vijay Kumar Kurnalliker Asst. Professor College of Agriculture UAS, Raichur, Karnataka	Use of Information & Communication Programmes (ICTs) in Seed Production	
Wrap-up Session (13:00-13:30)			
29 August, 2020 13:00-13:10	Dr. H. G. Prakash Director Research, CSAU PI : CAAST-NC	Welcome Address & Training Report	
29 August, 2020 13:10-13:20	Dr. Prabhat Kumar NC (CAAST & Component-2) NAHEP, ICAR, New Delhi	Valedictory Address	
29 August, 2020 13:20-13:30	Dr. C. L. Maurya Professor Programme Co-ordinator	Vote of Thanks	

**Note: Registered candidate have to stay connected 15 min. before start of the each session/ e-lecture. To get e- certificate, online presence of candidates during the entire session is mandatory. Online certificate will be issued to registered candidates after submission of their feedback Report.**





NAHEP



24<sup>th</sup> - 28<sup>th</sup>  
November  
2020



*National e-Training*

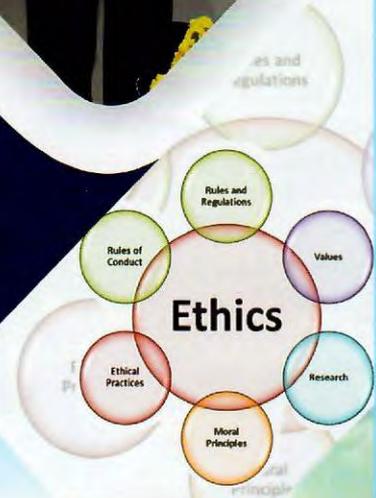
on

*Research Ethics and Thesis / Research Paper  
Writing Skills Development*

Sponsored under

NAHEP-ICAR, New Delhi & World Bank Funded Project

CAAST-NC: Seed Production Component



CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY KANPUR-208002

For registration

*Patron*



**Dr. R. C. Agrawal**

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

*Patron*



**Dr. D. R. Singh**

Vice Chancellor  
CSAUA&T, Kanpur, U.P.



**Dr. Prabhat Kumar**

National Convener  
NC(CAAST & Component-2)  
NAHEP, ICAR, New Delhi



**Dr. H. G. Prakash**

Organizing Director  
Director Research / PI:CAAST-NC  
CSAUA&T, Kanpur, U.P.



**Dr. C. L. Maurya**

Course Director  
Professor / Co-PI:CAAST-NC  
CSAUA&T, Kanpur, U.P.

**ASSOCIATED SCIENTISTS**

**Dr. B. P. Singh**

Assistant Professor  
NARP, Dalipnagar  
CSAUA&T, Kanpur Nagar, U.P.

**Shri Pravez Alam**

Assistant Professor  
Deptt. of Seed Science & Technology  
CSAUA&T, Kanpur, U.P.

**Dr. Jitendra Singh**

SMS  
Krishi Vigyan Kendra  
CSAUA&T, Kanpur, U.P.

**Moderator :** (i) **Dr. Naushad Khan**, Professor, Department of Agronomy, CSAUA&T, Kanpur, U.P.  
(ii) **Dr. Khalil Khan**, SMS / Media Incharge, CSAUA&T, Kanpur, U.P.

*For further clarification please contact :*

**Dr. V. K. Chourasiya, SRF**

CAAST-NC Project  
Contact No. +91 9532630667  
Email. [vc3949@gmail.com](mailto:vc3949@gmail.com)

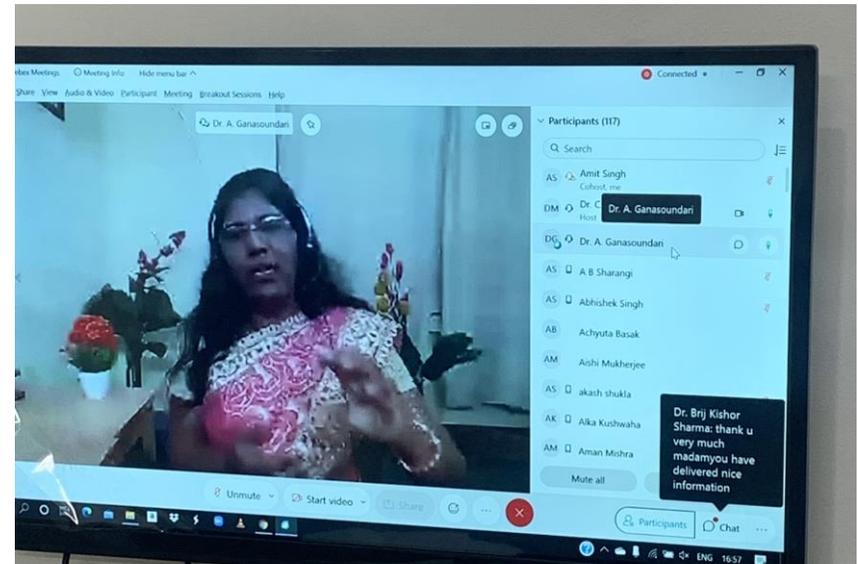
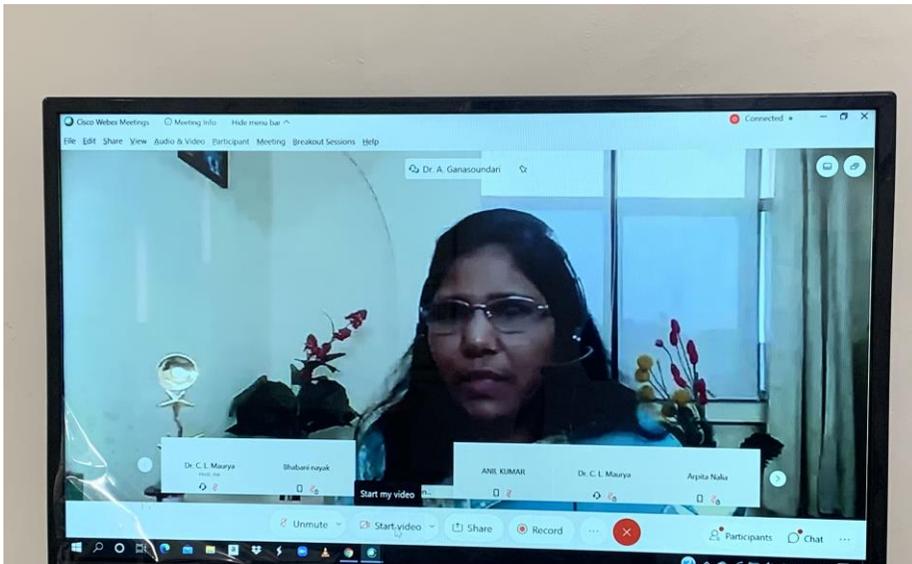
**Mr. Paras Kushwaha, SRF**

CAAST-NC Project  
Contact No. +91 8318127029  
Email. [parasagri0@gmail.com](mailto:parasagri0@gmail.com)

**Mr. Amit Singh, YP-I**

CAAST-NC Project  
Contact No. +91 7985699061  
Email. [singhamit0601@gmail.com](mailto:singhamit0601@gmail.com)

*Note: Participants have to stay connected 15 min. Before start of the each session / e-lecture. To get e-certificate, online presence of candidates during the entire session is mandatory. Online certificate will be issued to participants after submission of their feedback Report.*



मुख्य अतिथि



श्रीमती आनन्दीबेन पटेल  
मा0 राज्यपाल 30प्र0

# राष्ट्रीय वेबिनॉर

२३ दिसम्बर २०२०



NHEP

कृषकों को स्वावलम्बी एवं आत्मनिर्भर बनाने हेतु

किसान उत्पादक संगठन

आवश्यकता, अवसर, चुनौतियां एवं क्रियान्वयन



भा.कृ.अनु.प., नई दिल्ली द्वारा  
वित्त पोषित परियोजना (कास्ट-एनसी)

चन्द्र शेखर आजाद कृषि एवं प्रौद्योगिक  
विश्वविद्यालय, कानपुर-208 002 उत्तर प्रदेश

## मुख्य अतिथि



श्रीमती आनन्दीबेन पटेल  
मा० राज्यपाल ३०प्र०

## विशिष्ट अतिथिगण



श्री पुरनोत्तम स्वस्था  
मा० राज्य मंत्री  
पंचायत राज तथा कृषि एवं किसान कल्याण  
भारत सरकार



डॉ० संजीव कुमार बासियाम  
मा० राज्य मंत्री  
पशुपालन, डेयरी और मत्स्य पालन  
भारत सरकार



श्री लक्ष्मण सिंह राजपूत  
मा० राज्य मंत्री  
कृषि, कृषि शिक्षा एवं अनुसंधान  
उत्तर प्रदेश



डॉ० पंजाब सिंह  
पूर्व सचिव कृषि अनुसंधान एवं शिक्षा विभाग  
एवं पूर्व महानिदेशक, भा०कृ०अनु०प०  
नई दिल्ली



डॉ० ए० के० सिंह  
उप महा निदेशक (कृषि प्रसार)  
भा०कृ०अनु०प०, नई दिल्ली

## संरक्षक



डॉ० आर० सी० अश्रवाल  
उप महा निदेशक (शिक्षा)  
भा०कृ०अनु०प०, नई दिल्ली

## संरक्षक



डॉ० डी० आर० सिंह  
कुलपति  
च० शे० आ० कृषि एवं प्रौ० वि०वि०, कानपुर



डॉ० ए०के० जी० प्रकाश  
निदेशक शोध/अध्यक्ष



डॉ० धूम सिंह  
निदेशक प्रसार/सह अध्यक्ष



डॉ० डी० आर० सिंह  
अधिष्ठाता कृषि संकाय/सह अध्यक्ष



डॉ० सी० एल० मोर्य  
प्राध्यापक/संयोजक सचिव



डॉ० जितेन्द्र सिंह  
वैज्ञानिक/सह संयोजक सचिव

## तकनीकी स्तर प्रथम

डॉ० ए०के० जी० प्रकाश, निदेशक शोध, अध्यक्ष  
डॉ० आशा यादव, सहा० प्राध्यापक, सह अध्यक्ष  
डॉ० अभिमन्यू यादव, वैज्ञानिक, सदस्य  
डॉ० खलील खॉन, वैज्ञानिक, सदस्य  
डॉ० स्वेता, सहा० प्राध्यापक, संचालक सदस्य  
डॉ० एस० बी० पाल, सहा० प्राध्यापक, रपोर्टर

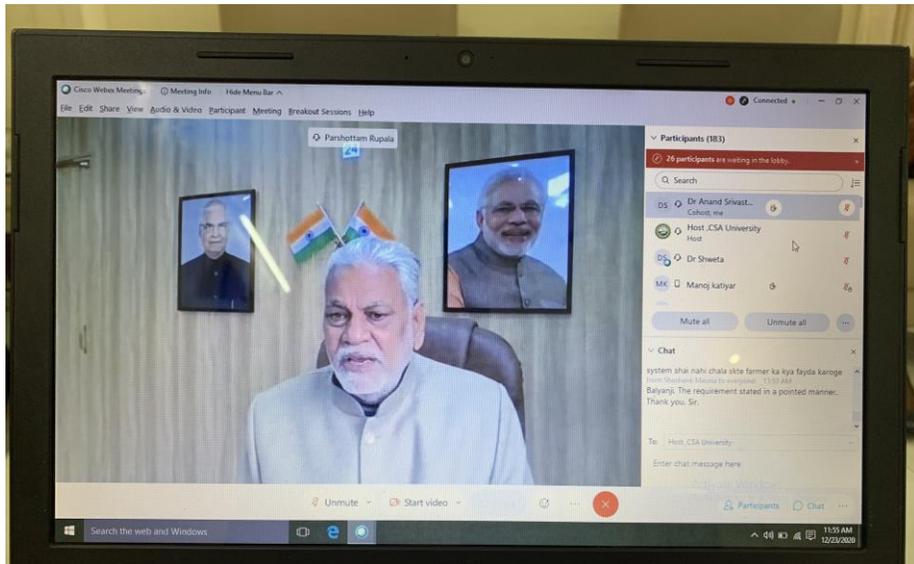
## तकनीकी स्तर द्वितीय

डॉ० धूम सिंह, निदेशक प्रसार, अध्यक्ष  
डॉ० जितेन्द्र सिंह, प्राध्यापक, सह अध्यक्ष  
डॉ० ए० के० सिंह, सह प्राध्यापक, सदस्य  
डॉ० अशोक कुमार, सह प्राध्यापक, सदस्य  
डॉ० साधना वैस, वैज्ञानिक, सदस्य  
डॉ० रश्मी सिंह, सहा० प्राध्यापक, संचालक सदस्य  
डॉ० एस० के० पाण्डेय, वैज्ञानिक, रपोर्टर

कार्यक्रम संचालन समिति: डॉ० स्वेता एवं डॉ० रश्मी सिंह, सहायक प्राध्यापक

ऐप प्रबन्धन समिति : डॉ० ए० एस० श्रीवास्तव, इन्चार्ज, ए०के०एम०यू०, श्री विवेक कुमार, ए०के०एम०यू० एवं श्री सुबोध वाई०पी०-२

ई-पंजीकरण समिति : डॉ० जितेन्द्र सिंह, वैज्ञानिक/सह संयोजक सचिव, डा० वी० के० चौरसिया एवं श्री पारस कुशवाहा, एस०आर०एफ० (9532630667, 8318127029)





CSAU



WORLD BANK



ICAR

## ONLINE QUIZ COMPETITION

28<sup>th</sup> January  
2021

# Quest For The Best

*Organized under the Aegis*

NAHEP-ICAR, New Delhi Funded Project

CAAST-NC: Seed Production Component

Chandra Shekher Azad University of Agriculture & Technology, Kanpur

Patron



**Dr. R. C. Agrawal**  
DDG (Education) & National Director  
NAHEP-ICAR, New Delhi

Patron



**Dr. D. R. Singh**  
Vice Chancellor  
CSAUA&T, Kanpur

National Convener



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

Chairman



**Dr. H. G. Prakash**  
Director Research  
CSAUA&T, Kanpur

Organizing Secretary



**Dr. C. L. Maurya**  
Professor/Co-PI  
CSAUA&T, Kanpur

### Details of Online Quiz Competition

- ▶ Quiz competition is open for all students and faculties of Plant Science and horticulture groups from recognized Agricultural Universities, Institutions and colleges of India.
- ▶ The quiz will be conducted online having questions from above subject group.
- ▶ The participants may register himself/herself on google form which will remain active up to 26<sup>th</sup> January 2021 (24 hrs).
- ▶ The competition will accommodate to 300 eligible candidates. Selection of candidates will be done on "first come first serve" basis.
- ▶ Quiz will be held on 28<sup>th</sup> January 2021 and quiz link will remain active for 2:00 hrs. between 12:00 to 14:00 only. The link will be communicated to participants on 27<sup>th</sup> January 2021 through WhatsApp group.
- ▶ Candidates securing more than 50% marks will be provided participation certificate.
- ▶ Top 3 rankers will be provided certificate of merit.
- ▶ Be careful while attempting the online quiz competition. Submit your quiz within allotted time. Organizing team will not be responsible in case of unsuccessful submission due to slow/breakdown of connectivity at your end.
- ▶ The name of candidate and organization in the registration form and online question paper both should be alike or otherwise candidature will be cancelled.
- ▶ **Registration Link:** <https://forms.gle/hMooGFX2tKc3tbTO9>



**Target Audience:** M.Sc. & Ph.D. Students and faculties of Plant Science Group (Genetics & Plant Breeding, Seed Science & Technology, Plant Pathology and Plant Genetic Resources) and Horticulture group (Vegetable Science/Olericulture; Fruit Science /Pomology; Horticulture; Spices, Plantation, Medicinal and Aromatic Plants and Post Harvest Technology)

### About the Selection

The WhatsApp group of the selected candidates will be created at least one day before the start of the quiz competition & the quiz competition link will be posted in the group on 27<sup>th</sup> January 2021. Keep watching your WhatsApp.

For any query

**Mr. Paras Kushwaha, SRF** / **Dr. V. K. Chourasiya, SRF**  
Mob.: +91 8318127029 / Mob.: +91 9532630667



**Patron**  
**Dr. B. C. Agrawal**  
 DDG (Education) &  
 National Director  
 NAHEP-ICAR, New Delhi



**Patron**  
**Dr. D. B. Singh**  
 Vice Chancellor  
 CSAUA&T, Kanpur



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



**Chairman**  
**Dr. H. G. Prakash**  
 Director Research  
 CSAUA&T, Kanpur



**Organizing Secretary**  
**Dr. C. L. Maurya**  
 Professor/Co-PI  
 CSAUA&T, Kanpur



REGISTRATION

<https://forms.gle/hMooGFX2tKc3tbTQ9>

**Jury for Evaluation:**

- |   |                                      |
|---|--------------------------------------|
| Dr. H. G. Prakash, Director Research    | Dr. Sweta, Assistant Professor       |
| Dr. C. L. Maurya, Professor             | Dr. Rajiv, Assistant Professor       |
| Dr. Lokendra Rathi, Associate Professor | Dr. H. C. Singh, Assistant Professor |



**ONLINE PERSUASIVE WRITING COMPETITION**

ON

**Role of Quality Seed in Doubling  
Farmers' Income**

*Organized under the Aegis*

**NAHEP-ICAR, New Delhi Funded Project**

**CAAST-NC: Seed Production Component**

**Chandra Shekher Azad University of Agriculture  
And Technology, Kanpur - 208 002**

**3<sup>rd</sup> February, 2021**

**Details of Online Persuasive Competition:**

- Persuasive writing competition is open for all students and faculties of Plant Science and Horticulture group from recognized Agricultural Universities, Institutions and colleges of India.
- The Persuasive writing competition will be conducted online.
- The participants may register himself/herself on google link which will remain active up to 26<sup>th</sup> January 2021 (24 hrs).
- The competition will be available for 300 eligible candidates. Preference will be given to the candidate first come first serve basis.
- The competition will be held on 3<sup>rd</sup> February 2021 and examination link will remain active for 3:00 hrs. between 12:00 to 15:00 only. The link will be communicated to participants on 2<sup>nd</sup> February 2021 through whatsapp group.
- Candidates secure more than 50% marks will be provided participation certificate. However, top 3 rankers will also be provided Certificate of Merit.
- The name of candidate and organization in the registration form and online persuasive examination link both should be alike or otherwise candidature will be cancelled.
- Legible manuscript will be accepted only. The participants are advised to answer on A4 size plain paper and upload PDF copy of the same in single file on the provided persuasive examination link.
- The answer shall be no longer than 1500 words and no shorter than 1000 words. The candidate may choose either English or Hindi language.
- Answer should be given in standard format like Introductory paragraph, main body paragraph and concluding paragraph.

**Target Audience:** M.Sc. & Ph.D. Students and faculties of Plant Science Group (Genetics & Plant Breeding, Seed Science & Technology, Plant Pathology and Plant Genetic Resources) and Horticulture group (Vegetable Science/Olericulture; Fruit Science /Pomology; Horticulture; Spices, Plantation, Medicinal and Aromatic Plants and Post Harvest Technology)

**About the Selection:**

The WhatsApp group of the selected candidates will be created at least one day before the start of the persuasive competition & the persuasive competition link will be posted in the group on 2<sup>nd</sup> February 2021. Keep watching your WhatsApp.

**For any query**

Mr. Paras Kushwaha, SRF Mob.: +91 8318127029	Dr. V. K. Chourasiya, SRF Mob.: +91 9532630667
---	---



CSAU

NAHEP



ICAR

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





CSAU

NAHEP



ICAR

# 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

#### 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.



Patron

**Dr. R. C. Agarwal**

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



Patron

**Dr. D. R. Singh**

Vice-Chancellor  
CSA University of Agriculture & Tech. 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, Varanasi
- Dr. T Chaubey**, Principal Scientist, ICAR-IIVR, Varanasi
- 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 (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



**Dr. Meenakshi Kumari**

Senior Research Fellow  
E-mail: [meenakshisinghups@gmail.com](mailto:meenakshisinghups@gmail.com)  
(M): +91 8630131719



**Dr. Saurabh Tomar**

Young Professional-II  
E-mail: [chaudhary.csa@gmail.com](mailto:chaudhary.csa@gmail.com)  
(M): +91 9760189018

#### COURSE DIRECTOR

#### COURSE COORDINATOR

#### COURSE Co-COORDINATOR



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



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



**Dr. Rajiv**  
Jr. Agronomist

Note: online e-certificate will be issued to registered participants



**CSAU CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, KANPUR - 208 002, U.P. (INDIA) ICAR**

## Two Days Online National Training

on

# Developing Entrepreneurship in Vegetables through Protected Cultivation

**July 06-07, 2021; Time: 13:50 to 17:00 hrs**

### About Training

Indian Vegetables market was worth Rs 130 billion in year 2017 it has been projected to reach 394 billion by 2023 at CAGR of 20% during 2018-2023. The Liberalization of industrial and trade policies paved the way for development of export oriented production of Vegetables. Capsicum, Cucumber, Tomato, Commercial horticulture are perishability, intense technology, high profitability accompanied with high investment and high risks including vulnerability to post-harvest losses. Overall it demands very good entrepreneurship. This training will be helpful in encouraging entrepreneurship in vegetables under protected conditions.



### PATRON

**Dr. D. R. Singh**

Vice-Chancellor  
CSA University of Agriculture & Technology  
Kanpur, U.P.

### EMINENT SPEAKERS



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

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



**Dr. Rajesh Kumar**  
Principal Scientist & PC (AICRP-Veg.)  
ICAR - IIVR, Varanasi

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



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

**Dr. Rajinder Singh**  
Director, Seeds & Farms  
PAU, Ludhiana



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

**Dr. Raj Narayan**  
Principal Scientist  
ICAR - ATARI, Jodhpur, Rajasthan



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



**Dr. D. P. Singh**  
Course Coordinator  
Co-PI, CAAST-NC



**Dr. Rajiv**  
Course Co-Coordinator

### Members Organizing Team



**Dr. Meenakshi Kumari**  
Senior Research Fellow  
CAAST-NC, Project  
E-mail: meenakshisinghupcs@gmail.com  
(M): +91 8630131719



**Dr. Saurabh Tomar**  
Young Professional-II  
CAAST-NC, Project  
E-mail: chaudhary.csa@gmail.com  
(M): +91 9760189018

### 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://forms.gle/93PShoZkbUzfdMkd7>



Book Post



## National Conference

on

# ORGANIC FARMING FOR SUSTAINABLE AGRICULTURE AND LIVELIHOOD SECURITY UNDER CHANGING CLIMATIC CONDITIONS

December 12-13, 2017

Organized by:



**C.S. Azad University of Agriculture & Technology  
Kanpur - 208 002 (U.P.)**

To,

---

---

---

From:

**Dr. D.P. Singh**

Organizing Secretary (NCOF-2017)  
Joint Director Research  
Directorate of Research  
C.S. Azad University of Agriculture & Technology

In collaboration with:



UP Govt. Lucknow



NHB, Gurgaon



NABARD Lucknow



**National Conference**  
on  
**Organic farming for sustainable agriculture and  
livelihood security under changing climatic conditions**  
12<sup>th</sup> - 13<sup>th</sup> December, 2017  
CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY, KANPUR

MEDIA PARTNER  
SPONSOR  
U.P. GOVT.  
APEDA  
NABARD

### Jaggery production

Jaggery is traditional Indian sweetener with medicinal qualities.

- cooling
- diuretic
- refreshing conditions
- aphrodisiac
- lactogenic
- cardiac tonic

80-85% sucrose  
10-15% reducing sugars  
0.25% proteins  
0.5% fat  
0.6-1% of minerals

Nutritionally superior to white sugar and has various medicinal properties.

### Jaggery production

Jaggery is traditional Indian sweetener with medicinal qualities.

- cooling
- diuretic
- refreshing conditions
- aphrodisiac
- lactogenic
- cardiac tonic

Nutritionally superior to white sugar and has various medicinal properties.

## National Conference

on

### ORGANIC FARMING FOR SUSTAINABLE AGRICULTURE AND LIVELIHOOD SECURITY UNDER CHANGING CLIMATIC CONDITIONS

Organic farming system in India is not new and is being followed from ancient time. It is a method of farming system which primarily aimed at cultivating the land and raising crops in such a way, as to keep the soil alive and in good health by use of organic wastes (crop, animal and farm wastes, aquatic wastes) and other biological materials alongwith beneficial microbes (biofertilizers) to release nutrients to crops for increased sustainable production in an eco friendly pollution free environment. It is also the system which avoids or largely excludes the use of artificial chemical inputs such as fertilizers, pesticides, hormones and feed additives in the field of agriculture. The organic farming primarily aims at cultivating the land and raising crops by use of organic wastes such as recycled and composted crop waste, animal manures, green manures and legumes and mulching of soil surface to build good soil condition and fertility. The extensive dependence on chemical farming has resulted harmful effects on soil fertility and health. Land is losing its natural fertility and is demanding larger quantities of fertilizers to be used every season. Pests are becoming more immune to pesticides, requiring the farmers to use stronger and costlier pesticides that can do more damage to environment and biodiversity. Due to the increased cost of farming, the farmers are falling into the traps of money lenders, who are exploiting the farmers.

FAO suggested that "Organic agriculture is a unique production management system which promotes and enhances agro-ecosystem health, including biodiversity, biological cycles and soil biological activity, and this is accomplished by using on-farm agronomic, biological and mechanical methods in exclusion of all synthetic off-farm inputs".

In respect of worldwide organic food consumption Denmark and Austria lead the way with 37.3 and 34 Euro per capita consumption per year. The average consumption of organics in EU and USA is approximately 16 Euro (\$15) per capita per year. The worldwide market share for organic products is between 0.5 to 3%, but it is hard to determine, as some countries do not certify their products.

Demand for green food is on increase and harnessing the potential of organic farming which address soil health, human health and environmental health is considered of greater significance. In last few years, organic farming has attracted many farmers across the country especially combined with ecotourism and have

experimented successfully. India is best known as an exporter of organic tea and also has nice market for spices and fruits and vegetables. Fresh tropical fruit that are having high potential in the world market are banana, date palm, fig, pineapple, avocado, guava, mango and mangosteen, melon and papaya; other fruits like kiwi, durian, litchi, jackfruit and carambola also have scope for production. Large scale investment in the sector will overcome the marketing constraints of these produce and hence will be a highly remunerative venture in the days to come.

#### THEMES OF CONFERENCE

The theme of national conference will be "Organic farming for sustainable agriculture and livelihood security under changing climatic conditions". There will be following sub-themes.

#### SUB THEME

1. Integrated farming system and crop diversification, inputs use efficiency and climate smart technologies.
2. Soil health management, bio intensive agriculture for enhanced production efficiency.
3. Recycling of sugar agro industrial based biocomposting.
4. Government policies and National Programme on Organic Production, Standard and certification procedures in organic agriculture.
5. Abiotic and biotic stress management.
6. Socio-economic issue and livelihood security; extension strategies on organic farming.
7. Post harvest management and value addition of farm produce.
8. Conservation of environment, use of bio pesticides and insecticides for quality production.

#### CALL FOR PAPERS

Participation is open to all researchers, research managers, policy makers, traders and cultivators working on various aspects of organic farming. Two copies of abstract containing 500 words may be sent through post alongwith soft copy by due date. Full text of paper not exceeding six typed pages of A-4 size (including the abstract, appendices, tables, illustrations and photographs) alongwith the soft copy in MS word, font size 12 in Times New Roman should be sent either through post or by Email (ncof2017@gmail.com) to the Organizing Secretary, National Conference on "Organic farming for sustainable agriculture and livelihood security under changing climatic conditions" (NCOF-2017), Directorate of Research, C.S. Azad University of Agriculture & Technology, Kanpur-208002 before November 20, 2017 along with registration fee. The acceptance of paper and mode of presentation will be informed in due course of time.

#### SCHEDULE AND IMPORTANT DEADLINES

Submission of abstract	November 05, 2017
Remittance of Registration fee	November 10, 2017
Notification of Acceptance	November 15, 2017
Submission of full length paper	November 20, 2017

#### REGISTRATION FEE

S.No.	Category	Fee (Rs.)
1.	Scientist	4000/-
2.	Industries/Exporters	6000/-
3.	Students/ Accompanying person	1000/-
4.	Overseas delegates	US\$2500 all inclusive in package

All payments should be made through Bank Draft in favour of "ORGANIZING SECRETARY, NCOF-2017, C.S. AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY, KANPUR".

#### ACCOMMODATION

Limited accommodation is available in the university guest house. Delegates will also be accommodated in hotels in Kanpur city. Hotel accommodation can be booked on request by advance payment by Nov. 15, 2017. The common hotel charges for a doubled bed room at Kanpur range from Rs. 1500-2500 per day.

#### ABOUT THE VENUE

Kanpur, the industrial capital of Uttar Pradesh, is nestled on the banks of holy river Ganga. The city is located at a distance of 444 Km from New Delhi and 80 Km from Lucknow, the capital of Uttar Pradesh. The venue is well connected with rail and road. It is located on route of Northern Central Railway and Southern railway. The university is located at a distance of 9.0 Km (north-west) from Kanpur Central Railway/Bus Station. Weather will be slightly cold and temperature ranges between 24-12°C, warm clothing will be required.

#### SPONSORSHIP

Sponsorship for the conference are invited from different organizations, professionals, manufacturers and suppliers of instruments, equipments, chemicals, glassware, plastic wares and contractors etc. as per following:

Category	Amount (Rs.)
1 <sup>st</sup>	1,00,000/-
2 <sup>nd</sup>	50,000/-
3 <sup>rd</sup>	25,000/-

The category 1st, 2nd and 3rd sponsoring agency will get free advertisement on full, half and one-fourth colour page, respectively in souvenir. Besides, sponsorship for lunch and dinner are invited separately.









INDOSAW

Krishna Habitat, Magical  
Building Solutions Pvt.Ltd.

Insecticides India Limited

**क्रिया Habitat**  
मनुष्य सुदृढभवन

aprizameen...apna aasman

- 100% Allotted free hold plots in Lucknow.
- All modern amenities available.
- Club, school, bank, gym with three no security system.
- Plot size 112 sq. yards to 175 sq. yards.
- Each house area with carroy park.

For more enquiry **9838567567**

Sponsored by  
आंध्र प्रदेश स्टेट बैंक  
State Bank of India

Price Starts at Re. 50  
Plot Size From 112  
Finance Options Available

OUR BANKING PARTNER

Call: 983856  
www.krishnahabitat.com

Apni Zameen...Apni

PLOTS AT  
LAKHANPU  
KANPUR  
(OPP. RAMA DENTAL CLINIC)

Price Starts at Re. 50  
Plot Size From 112  
Finance Options Available

OUR BANKING PARTNER

Call: 983856  
www.krishnahabitat.com

आओ संकल्प करे  
मिट्टी का कार्याकल्प करें

स्वस्थ खेत  
स्वस्थ फसल  
स्वस्थ भारत

KAYAKALP

मिट्टी के अम्ल-ताप के कारण  
होने वाले कृषि क्षेत्रों में  
कार्याकल्प

आओ संकल्प करे

स्वस्थ खेत  
स्वस्थ फसल  
स्वस्थ भारत

MYCORAJA

WELCO

**REGISTRATION FORM**

**National Training  
on  
Recent Advances in Functional and Nutraceuticals for Future Foods**  
July 8-28, 2019

Name: (in Capital letter) \_\_\_\_\_  
Father's Name: \_\_\_\_\_  
Designation: \_\_\_\_\_  
Perusing M.Sc/M.Sc.Ag/M.Tech/Ph.D.(For students) \_\_\_\_\_  
Institution: \_\_\_\_\_  
Corresponding Address: \_\_\_\_\_  
\_\_\_\_\_  
City: \_\_\_\_\_ State \_\_\_\_\_ Pin code: \_\_\_\_\_  
Contact No. (O) \_\_\_\_\_ (Mob.) \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Accommodation required: Yes/No \_\_\_\_\_  
Hostel / Guest House \_\_\_\_\_ Single/ Double \_\_\_\_\_  
Date: \_\_\_\_\_  
Place: \_\_\_\_\_ Signature \_\_\_\_\_

**Address for Correspondence**

**Dr. Seema Sonkar**  
Assistant Professor  
Department of Food Science & Nutrition  
C.S.A University of Agriculture & Technology, Kanpur  
Email: seemanutritionscience@gmail.com  
Contact No.: 8765776375

**National Training  
on  
Recent Advances in Functional and  
Nutraceuticals for Future Foods**

July 8-28, 2019



**Organized by**

**Department of Food Science & Nutrition**  
**Harvest Plus Bio-fortification and Value Addition**  
**Venue**  
**Centre for Advanced Agricultural Science and Technology in**  
**Nutritional Crops (CAAST-NC)**  
**C.S.A University of Agriculture & Technology, Kanpur U.P**

It is matter of immense pleasure that Harvest plus Bio-fortification and value addition under the Centre for Advanced Agricultural Science and Technology (CAAST-NC) project, Chandra Shekhar Azad University of Agriculture & Technology, Kanpur is going to be organize a twenty one days National Training on "Recent Advances in Functional and Nutraceuticals for Future Foods" during July 8 to 28, 2019 at University campus, Kanpur. In recent years, there is a growing interest in functional food & Nutraceuticals which provide health benefits and alternative to modern medicine. Functional food may contain significant levels of biologically active component that impart health benefits when consumed in optimal serving size. Expansion of food industry the use of functional foods in health care in increasing day by day and consumers are now health conscious and preferring functional food and Nutraceuticals.

**About C.S.A. University**

The Chandra Shekhar Azad University of Agriculture & Technology, Kanpur a premier institution of the nation serving since 1893, was established on March 1975. At present, there are eight college in University viz, College of Agriculture, College of Forestry, College of Horticulture and College of Home Science at Kanpur, College of Agricultural Engineering and Technology, College of Fisheries & Research Centre and College of Dairy Technology at Etawah. A second College of Agriculture is also established at Lakhimpurkheri. The University has excellent facilities in terms of well-equipped library, Research Stations, Computer Centre, Laboratories, Auditorium, Hostels, Agriculture Knowledge Management Unit (AKMU) Agriculture Information Bureau, Agriculture Technology Information Centre (ATIC), Centre Instrumentation Laboratory, Bio-control Laboratory, Pesticide Residue Laboratory, Soil Testing Laboratory, Seed Testing Laboratory, Mushroom Laboratory besides other departmental laboratories. The University has a long history of significant research contributions made by the well established faculties, research sections, regional stations and research farms and developed more than 285 high yielding varieties in cereals, oilseeds, pulses, vegetables and important others crops.

**Climate during Training Period**

Monsoon continues from July brings the temperature down to a certain degree. The weather is moderate yet humid during this time. During month of July temperature will range between 25-35°C with humidity of about 85%.



**Centre for Advanced Agricultural Science and Technology (CAAST-NC)**

Chandra Shekhar Azad University of Agriculture & Technology, Kanpur, is one of the State Agricultural University selected for implementation of CAAST-NC project. It is new initiative of Education Division of ICAR, New Delhi funded by the World Bank sponsored National Agricultural Higher Education Project (NAHEP) for capacity building of students and faculty. The project emphasized on modern scientific education, research and development in area of quality seed production of vegetables and pulse crops, bio-fortification and harvest plus aspect, canning & packaging of nutritional crops to improve the nutritional security of nation.

**Theme**

- Bio-fortification & Dietary Supplement
- Functional Foods, Nutraceuticals and Disease Prevention
- Role of Functional Food in Global Market
- Recent technologies in development of functional foods and Nutraceuticals

**Lecture** : Academician / Subject matter Specialist from public and private sector will be invited to deliver lecture.

**Who should attend this course** : M.Sc. & Ph.D. students/ Faculty in Food Science & Nutrition/ Horticulture/ Vegetables/Biochemistry/Food Technology.

**Registration**

Registration and nomination should be done by HoD/Dean/Registrar indicating their enrolment in respective University.

**Last date of Registration** : June 30, 2019

**Accommodation**

Accommodation in Hostels and Guest Houses will be made available on request in advance.

**Duration** : 21 days (July 8 - 28, 2019)

**Organized by**

Course Director: Dr. H.G. Prakash, Director Research  
Course coordinator: Dr. Seema Sonkar, Assistant Professor /Co-PI  
Course Co-Coordinator: Dr. Rashmi Singh, Assistant Professor /Co-PI







# MOKSHA

a sankalap to set eco-peace

**THEME-BIODIVERSITY AND CONSERVATION**

## 1- Drawing & Slogan Making Competition

Only for School Students (Online Competition)

- ▶ Participant should be age (8 to 14 Yr.) and can participate in both events.
- ▶ Each Participant needs to share entries through online mode (E-mail)
- ▶ Participant should be the solo author of his entry.
- ▶ The entries should not be copied through any online media.
- ▶ No bounded for using any color media and should be visible to short out the concept portrait.
- ▶ e-Certificate to each participant will be shared through e-mail.
- ▶ Participant share the entries through Registration Link.

**Last date to submit 30 Sep., 2020**

Online submission format:

Name  
Father's Name  
Date of Birth (age)  
Class & School  
Home Address  
Mobile No.  
E-mail ID

### INFORMATION DESK

9451169013

csamoksha2020@gmail.com

<https://csauk.ac.in>





# MOKSHA

a sankalap to set eco-peace

September 19, 2020 at 6:30am to 10:00am

## THEME-BIODIVERSITY AND CONSERVATION

### 1- Bird Photography Competition

(any age group join)

- > Participant joining photography competition should join at CSA Campus.
- > Participant have to Submit Images click during competition (no other photo will be accepted)
- > Participant have to submit all the photograph taken inside the campus in RAW or JPEG format in 6000x4000 res. and 240dpi.
- > Photographs will be displayed in VC Office, Director Office and Agriculture Museum.
- > Result will be declared on 2 October (Gandhi Jayanti).
- > Certificate to each participant will be distributed on same date.

### 2- Poster Making Competition

(any age group join)

- > Participant can participate in / as single person or in group of 4 (Max.).
- > Participant should carry all the required material for Competition with canvas size (4'x3'). (No material will be provided by the organizer)
- > The entries (Canvas) will be used by the university, participants will not get submitted entries back.  
Photographs will be displayed in CSA Campus.
- > Result will be declared on 2 October (Gandhi Jayanti).
- > Certificate to each participant will be distributed on same date.



### INFORMATION DESK



9451169013



csamoksha2020@gmail.com



<https://csau.ac.in>





Chandra Shekhar Azad University of Agriculture  
& Technology, Kanpur (U.P.)



Webinar on

## Role of Academic Institutions in Environmental Sustainability and Conservation

Date : 24.11.2020

Time: 10.30 AM

### About webinar

The 21st century faces the threats of environmental changes that are mostly man-made. The process of deforestation, indiscriminate killing of wild animals, birds and plant species, urbanisation, industrialization and misuse of natural resources are rapidly growing posing serious problems to sustainable ecology. The developments in our society have brought serious consequences for environment. Many species of insects, birds, animals and plants are in danger of extinction.

The aim of the webinar defines the role of institutions in the sustainable protection of the environment which is today's emerging need. We at CSAUA&T along with Paryavaran Sanrakshan Gatividhi hope that the discussions and deliberations during the webinar will come out with concrete action plan and remedial measures to resolve the issues of conflict between environmental degradation and sustainable development.

The main idea is that we must act responsibly so that resources on the planet will be able to support many generations to come.



Chief guest

Dr. Mahendra  
Kumar Singh  
(Cabinet Minister of  
Jalshakti)



Patron

Dr. DR. Singh  
Vice Chancellor  
CSAUA&T



Co-Patron

Dr. D.R. Singh  
Dean, Ag  
CSAUA&T



Convenor

Dr. H.G. Prakash  
Director, AES  
CSAUA&T



Co-Convenor

Dr. Umesh Shukla  
MGC GV, Satna  
(M.P.)



Organizing  
Secretary

Dr. Y.K. Singh  
CSAUA&T

**Registration:** Faculties, scientists and students of academic institutions are eligible to register to take advantage of the live webinar registered participants will be receiving webinar details. No registration fee will be charged from participants.

**Registration link:** [https://docs.google.com/document/d/1LIQ7IAS3Vr8wbj5wXSp2IKmJK\\_80DssvLstGuCaZJhs/edit?usp=sharing](https://docs.google.com/document/d/1LIQ7IAS3Vr8wbj5wXSp2IKmJK_80DssvLstGuCaZJhs/edit?usp=sharing)

Note-1 certificate will be issued to registered participants.



## Webinar on

# Role of Academic Institutions in Environmental Sustainability and Conservation

Venue: CSAUA&T, Kanpur  
(November 24, 2020)

### Program

November 24, 2020 (Tuesday)

### Inaugural Session

10:30-10:35 hrs	Invocation	
10:35-10:45 hrs	Welcome & Theme of Webinar	<b>Dr. D.R. Singh</b> Vice Chancellor CSAUA&T
10:45-11:00 hrs	Address by Special guest	Dr HD Charan, Bikaner Technical University, Bikaner
11:00-11:10 hrs	Address by Special Guest	Dr Munish Bindal
11:10-11:20 hrs	Address by Special Guest	<b>Prof. OPS Negi</b> Uttarakhand Open University, Nainital
11:30-11:40 hrs	Address by Special Guest	<b>Mr Rakesh Jain</b> Co-convener Paryavaran Sanrakshan Gatividhi
11:40-11:50 hrs	Inaugural address by Chief guest	
11:50-12:00 hrs	Vote of Thanks	<b>Dr Y.K. Singh</b> Organizing Secretary CSAUA&T



# Role of Academic Institutions in Environmental Sustainability and Conservation

## Technical Session-I Environmental Sustainability

Chairman	:	Prof. Devi Prasad Tripathi, VC, Uttarakhand Open University, Nainital
Co-Chair	:	H.G. Prakash, Director, AES, CSAUA&T
Rapporteurs	:	Dr. Dhananjai Singh, Professor, Deptt. of Agronomy

Time	Speaker
12:05-12:15 hrs	Dr. Jaswant Singh, Dr Ram Manohar Lohia Awadh University, Ayodhya
12:15-12:30 hrs	Smt. Anushka Kajbaje, Co- head of Central Waste Management Team PSG
12:30-12:45 hrs	Dr. Ritesh Vijay, Senior Scientist, NEERI
12:45-01:00 hrs	Dr. Smriti Mall, Ass. Prof. , Department of Botany, DDUGU, Gorakhpur

## Technical Session-II

### Environmental Conservation

Chairman	:	Prof. Rana Krishna Pal Singh, VC, Dr. Shakuntala Mishra National Rehabilitation University, Lucknow
Co-Chair	:	Dr. D.R. Singh, Dean, College of Agriculture, CSAUT, Kanpur
Rapporteurs	:	Dr. V.K. Verma, Professor Agronomy

Time	Speaker
01:00-01:15 hrs	Dr. S.R. Mishra, NDUAT, Faizabad
01:15-01:30 hrs	Dr. R.P. Singh, BBAU, Lucknow
01:30-01:45 hrs	Mr. Kartik Saprey, Ph.D student CRDT , IIT Delhi
01:45-02:00 hrs	Dr. Juhi Pandhari Pandey, Ph.D student Environmental Science ISC Nagpur



Time	Valedictory session	Guest
02:00 – 02:10 hrs	Chief guest	Dr. Surendra Dubey, VC, SVV, Kapilvastu
	Guest of honor	Prof. N.C. Gautam, V.C., MGCGVV, Satna (M.P.)
	Guest of honor	Shri. R.K. Jain, Co- convenor PSG
02:10 – 02:20 hrs	Vote of Thanks	Dr. Umesh Shukla, MGCGVV, Satna (M.P.)



## Role of Academic Institutions in Environmental Sustainability and Conservation

<b>Steering committee</b>	<ol style="list-style-type: none"> <li>1. Dr. Karam Husain</li> <li>2. Dr. Sanjiv Kumar</li> <li>3. Dr. D.D. Yadav</li> <li>4. Dr. V.K. Verma</li> <li>5. Dr. Dhananjai Singh</li> </ol>
<b>Programme coordinators</b>	<ol style="list-style-type: none"> <li>1. Dr. Ram Pyare</li> <li>2. Dr. Naushad Khan</li> <li>3. Dr. M.Z. Siddique</li> <li>4. Dr. R.A. Yadav</li> <li>5. Dr. Vijay Yadav</li> <li>6. Dr. Umesh Shukla</li> </ol>
<b>Organizing secretary</b>	<ol style="list-style-type: none"> <li>1. Dr. Y.K. Singh</li> </ol>
<b>Joint organizing secretary</b>	<ol style="list-style-type: none"> <li>1. Dr. S.N. Pandey</li> <li>2. Dr. Vishram Singh</li> <li>3. Dr. U.S. Tiwari</li> <li>4. Eng. S.K. Sachan</li> <li>5. Dr. Rajiv</li> <li>6. Sh. Manendra Singh</li> <li>7. Dr. Vinita Singh</li> </ol>
<b>Media team</b>	<ol style="list-style-type: none"> <li>1. Dr. Khalil Khan</li> <li>2. Sh. Ajit</li> </ol>
<b>Technical team</b>	<ol style="list-style-type: none"> <li>1. Sh. Vijay Dubey</li> <li>2. Sh. Vivek Kumar</li> </ol>
<b>Student coordinators</b>	<ol style="list-style-type: none"> <li>1. Mr. Devendra, M.Sc. Ag. (Seed Tech)</li> <li>2. Mr. Kuldeep Yadav, Ph.D (GPB)</li> <li>3. Mr. Chandramani Kushwaha. M.Sc. Ag. (GPB)</li> <li>4. Mr. Deependra, M.Sc. Ag. (Seed Tech)</li> <li>5. Mr. Surendra Kumar, M.Sc. Ag. (Plant Breeding)</li> <li>6. Mr. Ritesh Singh, M.Sc. Ag. (Soil Science)</li> <li>7. Mr. Ashwani Singh, M.Sc. Ag. (LPM)</li> </ol>





**CHANDRA SHEKHAR AZAD  
UNIVERSITY OF AGRICULTURE &  
TECHNOLOGY**



**ORGANIZES**

# **ENVIRONMENT YOUTH FORUM 2021**

**"NURTURING ENVIRONMENT LEADERS"**

**THEME--**

**PARYAVARAN CHETNA- ENVIRONMENT AND  
SUSTAINABILITY**

## **ONLINE EVENT**

Last Date to Register

**08.01.2021**

### **GROUP DISCUSSION**

12.01.2021

11:00 AM - 1:00 PM

Contact us at-

Environment Nodal Officer

9451169013

[dryksingh1209@gmail.com](mailto:dryksingh1209@gmail.com)

Level I (Prelims)

University Level

Competition

on the occasion of

**NATIONAL  
YOUTH  
DAY**



**Level I Registration-**

**<https://forms.gle/WGE6LR7BRMjrMCEN8>**



# Environment Youth Forum



## CHIEF GUEST



**DR. D.R. SINGH**  
**VICE CHANCELLOR**

**e-CERTIFICATE to participants**

- Winner
- I Runner up
- II Runner up

**Winners will be promoted to  
Regional Level. (UP & UK)**

**Registration Link for University-**

[https://docs.google.com/forms/d/e/1FAIpQLSckRC8xrF6QYy0pPksSqLOhR8DP0dHhzZJ6DUXSySRskrKJ4w/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSckRC8xrF6QYy0pPksSqLOhR8DP0dHhzZJ6DUXSySRskrKJ4w/viewform?usp=sf_link)

## JURY



**DR. H.G. PRAKASH**  
**DIRECTOR RESEARCH**



**DR. DHARM RAJ SINGH**  
**DEAN**



**DR. Y.K. SINGH**  
**ENO**



# **Topics for Deliberations (University Level Prelims)**

## **\*PROPOSED TOPICS FOR LEVEL I**

- 1. Natural Resource Management in Urban Economies.**
- 2. Exploitation of forests for Bioprospecting and Biopharming.**
- 3. How we can manage natural disasters with sustainable practices.**
- 4. Environment friendly waste management specific to e-waste.**
- 5. Conservation of wildlife and biodiversity.**
- 6. Alternate sources of energy & India energy.**
- 7. Blue economy .**
- 8. Developing carbon neutral resource efficient strategies.( Region specific).**
- 9. Urban farming for climate action and food security.**
- 10. New frontiers of green technology for climate action.**
- 11. Role of ethical & moral education for climate awareness.**
- 12. Sustainable practices for managing and reducing farming waste and residues to address climate change.**
- 13. Lifestyle, economic and social changes linked to conservation of environment.**



# Organizing Committee



- Prof. Sanjeev Kumar
- Prof. Dhananjai Singh
- Prof. Rampyare
- Prof. Videsh Verma
- Prof. D.D. Yadav
- Sh. Lal Mani
- Sh. Vishram Singh

Technical Association- Mr. Vijay Dubey

## Student Committee

- Anamika Dhar (Convenor)
- Siddharth Rajput
- Sushmit Verma
- Anushka Mehrotra
- Shivani Sinha

**NOTE: KINDLY REGISTER ON BOTH THE LINKS**



**Chandra Shekhar Azad University of  
Agriculture & Technology , Kanpur**

# ENVIRONMENT YOUTH FORUM 2021

*"Nurturing Environment leaders"*



## THEME:

## PARYAVARAN CHETNA- ENVIRONMENT AND SUSTAINABILITY

Calling for committed thoughtful young citizens  
who aspire to change the world!

Brilliant young minds will come together for  
focussed discussions on key environmental issues.



One individual may die for an idea, but that idea will,  
after his death, incarnate itself in a thousand lives.

-Netaji Subhash Chandra Bose

**ONLINE  
EVENT**

*Certification  
&  
Awards*

- E-Certificate to each participant
- Environment youth icon award 2021
- Special mention or appreciation to best speaker.
- Direct entry for Social Internship Programme by PSG

## Partner Universities/Co-Host



**Mahatma Gandhi Chitrakoot Gramoday  
Vishwavidyalaya, Chitrakoot**



**Dr. Shakuntala Misra National  
Rehabilitation University,  
Lucknow**



**Deen Dayal Upadhyaya Gorakhpur  
University, Gorakhpur**



**Uttarakhand Open University  
उत्तराखण्ड मुक्त विश्वविद्यालय**

# Level 2 (Semi final) - Regional Level ZONE IV

UTTAR PRADESH + UTTARAKHAND

DATE: 23 January 2021

TIME: 11 AM onwards

## PATRON:



**Dr. D.R. Singh**  
VC CSAU & T Kanpur



**Dr. H.D. Charan**  
VC Bikaner Technical University  
Bikaner, Rajasthan

## Chief Guest:



**Shri Ramapati Ji Shastri**  
Minister of Social Welfare,  
Scheduled Castes and Tribal Welfare  
Government of Uttar Pradesh

## Special Guest:



**Dr. Rana Krishna Pal Singh**  
Vice-Chancellor, Dr. Shakuntala Misra  
National Rehabilitation University,  
Lucknow

## Co-ordinator:



**Dr. U.K. Shukla**  
MGCGVV, Chitrakoot

## Organizing Secretary:



**Dr. Y.K. Singh**  
CSAU & T, Kanpur

**TOPIC FOR DELIBERATION:  
(REGIONAL LEVEL - SEMI FINALS)**

**WATER CONSERVATION AND  
NATURAL RESOURCE  
MANAGEMENT**

**.... JURY....**

- |   |        |                 |
|---|--------|-----------------|
| <b>1. Dr. K.N. Uttam</b><br>(Allahabad Central University)                          | .....➔ | <b>Chairman</b> |
| <b>2. Dr. Anil Mishra</b><br>(NBPGR, Karnal)  | .....➔ | <b>Member</b>   |
| <b>3. Dr. Shailesh Pandey</b><br>(DTU, Delhi)                                       | .....➔ | <b>Member</b>   |
| <b>4. Dr. Omji Shukla</b><br>(NIT, Patna)   | .....➔ | <b>Member</b>   |
| <b>5. Smt. Anushka Kajbaje</b><br>(Co-head of Central Waste<br>Management team PSG) | .....➔ | <b>Member</b>   |

## Programme Schedule - 23rd January 2021

TIME	ACTIVITY	RESPONSIBILITY
11:00 AM	Login online for the event	AKMU
11:05 AM	Environment Youth Forum 2021	Dr. Y.K. Singh(ENO CSAUT Kanpur)
11:10 AM	Welcome Address	Dr. D.R. Singh(VC CSAUT Kanpur)
11:20 AM	Address by the VC BTU, Bikaner	Dr. H.D. Charan
11:30 AM	Address by the special guest	Dr. Rana Krishna Pal Singh
11:40 AM	Address by the chief guest	Shri Ramapati Ji Shastri
11:50 AM	Competition	Organizing team

### RULES:

- It's an online event.
- Only three selected candidates from each university are allowed to participate at regional level.
- Five minutes will be provided for deliberation.
- Medium of deliberation can be English, Hindi and Bilingual.
- The students selected in regional event on 23rd of January 2021, would be required to compete at National level on 26th of January 2021.

### Regional Level -Semi Final:

Qualified teams will discuss the  
Zonal Theme  
Contribution of Youth  
Suggest Environment Collaborative Solutions

### Contact us at:

Environment Nodal Officer  
9451169013  
dryksingh1209@gmail.com



## ADVISOR



**Dr. Dharam Raj Singh**  
Dean, CSAU&T Kanpur



**Dr. H.G. Prakash**  
Director Research, CSAU&T  
Kanpur

## Organizing Committee:

- Prof. Neelu Jain Gupta (CCS University Meerut)
- Prof. Rajeev Gaur(Awadh University)
- Prof. G.S. Gupta(MGCGVV, Chitrakoot)
- Prof. K.K. Singh(MGCGVV, Chitrakoot)
- Prof. Sanjeev Kumar(CSAUT Kanpur)
- Prof. V.K. Verma(CSAUT Kanpur)
- Prof. Dhananjay Singh(CSAUT Kanpur)
- Prof. Rampyare(CSAUT Kanpur)
- Prof. D.D. Yadav(CSAUT Kanpur)
- Dr. Ashok Kr. Mishra(DSMRU Lucknow)
- Dr. Arun Kumar(Shri Guru Ram Rai University, Dehradun)
- Dr. Smriti Mall(DDU Gorakhpur)
- Er. Lal Mani(CSAUT Kanpur)
- Dr. S.K. Pandey(CSAUT Kanpur)
- Dr. Vineeta Singh(CSAUT Kanpur)
- Dr. Vishram Singh(CSAUT Kanpur)
- Dr. Rajiv Kr.(CSAUT Kanpur)

## Technical Collaborator:

- Dr. Anand Shrivastava(CSAUT Kanpur)
- Sh. Vijay Dubey(CSAUT Kanpur)
- Sh. Praveen Kumar (CSAUT Kanpur)

## Student Co-ordinator:

- Pooja Kumari (MSc. Agronomy)
- Saumya Nema (MSc. Soil Science)
- Shrishti Bhattacharya (BSc. Agriculture)
- Anushka Mehrotra (BSc. Agriculture)



## WHAT IS EXPECTED FROM THE STUDENTS

**Content**  
(facts and figures,  
organized thoughts)

The participant has thorough knowledge of the given topic.  
Presents relevant and authentic facts and figures.  
Explains using appropriate examples.  
Is always articulate and expresses the viewpoints in logical and clear manner.  
Able to analyze the topic well and gives a very structured input

**Communication-**  
(Confidence, tone, language,  
non- verbal + Listening

Expresses view point confidently.  
Has excellent vocabulary pertinent to the given topic.  
Has immaculate grammar and pronunciation irrespective of the language.  
Displays moderate rate of speech which is easily understandable.  
Has a very impactful voice. And very respectful yet assertive tone.  
Displays open & honest body language.  
Is active listener and listens to understand. Displays active listening through verbal nods.

**Creativity**  
Originality of Ideas

Comes up with innovative solutions to complex issues.  
The ideas generated are original and relevant to the context.  
Arguments or positions are reasonable and supported with evidence.  
Provides analysis of complex ideas that help deepen the inquiry and further the conversation.

**Behavior**  
(Attitude courtesies,  
team spirit,  
leadership abilities )

Treats everyone with utmost respect.  
Exhibits positivity in conduct and speech.  
Encourages others to contribute.  
Does not dominate discussion. Takes responsibility for maintaining the flow and quality of the discussion whenever needed.  
Emerges as a natural leader with easy acceptance from the group.

**Commitment**  
towards the  
cause of Environment

Has a proven track record with awards, recognition and accolades for contribution towards the cause of environment.  
Displays real passion and commitment towards Environment Protection.  
Has inspired others towards active and sustainable Environment Protection.



**Chandra Shekhar Azad**

University of Agriculture & Technology  
Kanpur 208002, Uttar Pradesh, India

## ABOUT THE CONFERENCE

Agriculture and farmers face a great challenge in effective management of natural resources and information both internally and externally in order to improve the livelihood and functional efficiency of operations, reduce environmental impact and comply with various documentation requirements. Self-sufficiency in cereals, pulses and oilseeds would be achieved with enhanced focus on popularising high-end technologies and crop diversification, paving the way for sustained improvement in agricultural production, productivity and farmers' income. Success can be achieved by providing farmers with proper education to gain necessary skills and range of solutions for higher farm profits. National Conference on "Farmer Centric Agri-innovation for Sustainable Development" has been planned during 18-19 February, 2017. The event will be organized by *Alumni Association, Chandra Shekhar Azad Krishi Evam Prodyogic Vishwavidyalaya*, Kanpur. We solicited input from leading experts in different dimensions of agriculture, representing the perspectives of the natural and social sciences, policy and academia, public and private Sector.

## SUB THEMES

- Sustainable Agriculture Development, Organic Farming, Contract Farming
- Irrigation, Watershed Development and Rainfed Agriculture
- Productivity Stagnation in Agricultural Sector
- Agricultural Marketing, Agro-processing and Post Harvest Operations
- Assessment of Rural Poverty Removal Programmes
- Policy Issues related to Development of Livestock, Poultry, Fishery and Sericulture
- Agriculture Diversification through Horticulture, Floriculture, Medicinal and Aromatic Crops
- Eco-friendly Crop residue Management
- Crop Improvement, Production and Protection for Sustainable Development of Farming Community
- Innovative Farmers Modules and Success Stories
- ITKs and Spiritual Agriculture.

## ORGANIZING COMMITTEE

**Chief Patron**  
Dr. Rajendra Kumar  
Director General  
UPCAR, Lucknow

**Patron**  
Dr. Sushil Solomon  
Vice Chancellor  
CSAUA&T, Kanpur

## ADVISORY BOARD

Dr. A. K. Singh  
DDG- Ext. ICAR, New Delhi  
Dr. Poonam Singh  
Dean Ag., CSAUA&T, Kanpur  
Dr. J. P. Yadav  
Dean-CAET, Etawah  
Dr. Neelima Kunwar  
Dean- HSc., CSAUA&T, Kanpur

Dr. Bharat Singh  
V.C., Alwar, Rajasthan  
Dr. H.G. Prakash  
DR, CSAUA&T, Kanpur  
Dr. Dhoom Singh  
DE, CSAUA&T, Kanpur  
Dr. Karam Husain  
Dir.-S&F, CSAUA&T, Kanpur

## NATIONAL STEERING COMMITTEE

**Prof. Ram Badan Singh**  
Chancellor, CAU Imphal

**Prof. Kirti Singh**  
Ex. Chairman ASRB New Delhi

**Dr. G. B. Singh**  
DDG-NRM, ICAR, New Delhi

**Dr. C.P. S. Yadav**  
Ex. DG-UPCAR, Lucknow

**Dr. Ram Pratap Singh**  
Ex. V.C.MPUA&T, Udaipur

**Dr. Ram Kathin Singh**  
Ex. Liaison Officer, IIRI-Philippines

**Dr. Gautam Kalloo**  
Ex. DDG- Hort. ICAR, New Delhi

**Prof. Ram Kirpal Pathak**  
Ex. Chairman-NHB, New Delhi

**Prof. Mata Prasad Pandey**  
Ex. VC-IGKVV& RAU

**Prof. Parmatama Singh**  
Ex. VC-Bikaner

**Dr. Mathura Rai**  
Ex. Director- IVRI, Varanasi

**Dr. Dhan Pal Singh**  
DR, GPBUA&T, Pantnagar

**Dr. Sankar Lal**  
Ex. Director-IIPR, Kanpur

**Dr. N. D. Pandey**  
Ex. DSW-CSAUA&T, Kanpur

**Prof. Rajendra Prasad**  
National Prof. New Delhi

**Dr. B. Mishra**  
Ex. VC- SKUAST, J & K.

**Dr. B. N. Singh**  
Director NRRI, Gorakhpur

**Dr. R. C. Chaudhary**  
Chairman PDRF, Gorakhpur

**Dr. Ramesh Yadav**  
IAS, Lucknow

**Dr. M. C. Yadav**  
P. S. New Delhi

**Dr. Ashok Pratap Singh**  
IFS, West Bengal

**Dr. R.P. Katiyar**  
Ex. DR. CSAUA&T, Kanpur

**Dr. Masood Ali**  
Ex. Director-IIPR Kanpur

**Dr. J. P. Mishra**  
Ex- Dean, NDUAA&T, Faizabad

**Dr. B. S. Dwivedi**  
New Delhi

**Dr. Arun Kumar**  
Director- Planning, Sabour

**Mr. I.M. Pandey**  
IFS, Egypt

**Dr. K. D. Upadhyay**  
Ex. Dean, CSAUA&T, Kanpur

**Dr. A. S. Warsi**  
Ex DR, CSAUA&T, Kanpur

**Dr. V. P. Kanaujia**  
Ex. VC, CSAUA&T, Kanpur

**Dr. A. Prasad**  
Ex. Dean, CSAUA&T, Kanpur

**Dr. S. C. Dube**  
Ex. Director  
NBPGR, New Delhi

**Dr. Y. P. Sibey**  
PS, IARI, New Delhi

**Dr. Dinesh Bishnoi**  
IARI, New Delhi

**Dr. Sunil Kumar Tiwari**  
Head, CP, IGFR, Jhansi

**Dr. Arvind Kumar Shukla**  
IISS, Bhopal

**Mr. Brijesh Tripathi**  
R&D Head, Neezu Veedu, Bangalore

**Dr. Arvind Kumar**  
Research Director, Norcan Seeds, Inc. Canada

**Dr. Vikesh Kr. Singh Yadav**  
DD, Deharadun

## STATE STEERING COMMITTEE

**Dr. J.P. Srivatava**  
Ex. Director S&F, Kanpur

**Dr. Ram Krishna**  
Ex. Dean Agriculture, Kanpur

**Capt. S. C. Tripathi**  
Kanpur

**Dr. Rajendra Kumar Shukla**  
Etawah

**Dr. R.A. Singh**  
Kanpur

**Dr. Mukesh Srivastava**  
Jhansi

**Dr. Prabhakar Singh**  
Lucknow

**Dr. Shiv Kumar Kesari**  
Kheri

**Dr. R. K. Singh**  
Kanpur

**Sri G.C. Katiyar**  
Fatehpur

**Dr. Nand Kishor**  
Unnao

**Sri Suresh Kumar Singh**  
Etawah

**Dr. Prakash Chand**  
Lucknow

**Dr. Brijendra Singh**  
Meerut

**Dr. H. P. Chaudhary**  
Kanpur

**Dr. K. S. Bhatia**  
Kanpur

**Dr. Rajesh Tripathi**  
Firozabad

**Organizing Chairman**  
Dr. Satyendra Kumar Singh

**Organizing Co-Chairman**  
Prof. Vijay Kumar Yadav  
Dr. Ram Sakal Singh

**Convener**  
Dr. Suresh Singh  
Dr. S. K. Singh

Dr. Mukesh Mohan  
Dr. P. N. Katiyar  
Dr. D. R. Singh  
Dr. Ved Ratan  
Dr. D. D. Yadav  
Dr. Lallu  
Dr. A. K. Dubey  
Dr. Kripa Shankar  
Dr. Ram Ashish Yadav  
Dr. Mahak Singh  
Dr. S. S. Yadav  
Dr. M. Z. Siddiqui  
Dr. V.K. Verma  
Dr. Y.K. Malik  
Dr. Ved Prakash  
Dr. C. P. Sachan  
Dr. G. S. Parihar  
Dr. C. L. Maurya  
Dr. A. K. Srivastava  
Dr. U. K. Tripathi  
Dr. S. N. Singh  
Dr. Shweta Yadav

**Dr. Ram Kalp Yadav**  
Faizabad

**Dr. Satendra Kanaujia**  
Meerut

**Dr. Ajay Sen Chaudhary**  
Bareilly

**Dr. Putan Singh**  
Bareilly

**Mr. Asif Riaz**  
Lucknow

**Dr. Dilip Singh**  
New Delhi

**Dr. Rajeev Gangwar**  
Lucknow

**Dr. Sujit Kumar**  
UPCAR, Lucknow

**Organizing Secretary**  
Prof. Munish Kumar

**Co-organizing Secretary**  
Dr. Kaushal Kumar  
Dr. Naushad Khan  
Dr. V. K. Tripathi

**Jt. Organizing Secretary**  
Dr. Akhilesh Mishra  
Dr. Sarvesh Kumar

**Treasurers**  
Dr. S. P. Kushwaha

## MEMBERS

Dr. R.P. Singh  
Dr. Birendra Kumar  
Dr. Keshav Arya  
Dr. M.P.S. Yadav  
Dr. B. N. Tripathi  
Dr. C.B. Singh  
Dr. O.P. Yadav  
Dr. Chandra Kala  
Dr. Ramesh Singh  
Dr. Nand Kumar  
Dr. J.K. Singh  
Dr. J. Rai  
Dr. Balwant Sachan  
Dr. Manoj Katiyar  
Dr. Javed Bahar  
Dr. C. B. Verma  
Dr. Anil Sachan  
Dr. R.K. Pathak  
Dr. Anil Kumar Singh  
Dr. Keshav Prasad  
Dr. Mamta Sahu  
Dr. Saumil Anjum

### CALL FOR PAPERS/ABSTRACTS

Researchers/agri-industry specialists/Progressive farmers/students/policy makers/other stakeholders are requested to submit their abstracts on particular sub themes of the conference. Abstract submitted for presentation will be reviewed & selected on merit for inclusion as oral or poster presentation in the programme.

Abstract submission rules & format for submission

- All abstracts must be submitted online/soft copy
- The abstract should be readily understandable to all readers and must not exceed **500 words in total** and should brief comprise of introduction, methodology, main results and conclusion.
- The title of the paper centered with bold cap letters (14 font Times New Roman), name of the author(s) centered in normal letters (12 font Times New Roman).
- The name of corresponding and presenting authors with phone and e mail should be specifically mentioned.

At least one author should register by paying the required registration fee.

### IMPORTANT DATES

Submission of abstract: 20 January, 2017  
Submission of invited lead papers: 20 January, 2017  
Communication of acceptance of papers: 30 January, 2017

### REGISTRATION FEE

Delegates ₹ 2000  
Life members, Alumni Association ₹ 1000  
Students ₹ 1000  
(Annual membership fee ₹ 500/-, Life membership fee ₹ 2500/-)

### MODE OF PAYMENT

The registration fee can be paid in any of the following modes

1. By demand draft drawn in favour of Secretary, Alumni Association, CSAUA&T, Kanpur payable at KANPUR
2. Online payment: Using following details

Bank Name - State Bank of India  
Branch Name - CSA University, Kanpur-208002  
Account No - 30124052207  
IFSC Code - SBIN0003809  
Swift Code - SBININBB124

Please mention transaction number or DD number for online registration

### SPONSORSHIP

Sponsorship opportunities are available for both public and private sector organizations and ten minute time slot will be given for presentation with sponsorship contributions as:

Platinum ₹ 70,000/- free registration for 6 delegates and one exhibition stall  
Diamond ₹ 50,000/- free registration for 4 delegates and one exhibition stall  
Golden ₹ 40,000/- free registration for 2 delegates and one exhibition stall  
Silver ₹ 30,000 free registrations for one delegates and one exhibition stall

### SOUVENIR

A souvenir will be published, where agricultural industries, organizations and stakeholders will have the opportunity to advertise their products by publishing their advertisements as per rate in the attached proforma.

### EXHIBITION

Organizations, progressive farmers, industrialists, students and researchers are requested to book their stalls well in advance to showcase their innovation/products at minimum rate as per their requirements.

### ACCOMMODATION

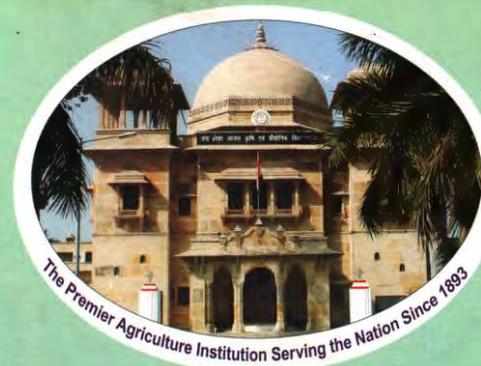
Participants will be housed in guest houses of CSAUA&T, CSJM Univ. and IIPR on first come first served basis. Those who are interested to stay in star hotels in the city will pay the hotel charges directly to the concerned hotel at the end of their stay. Please indicate in the registration form, your choice of stay, so that the arrangements made may be intimated in time to the concerned delegates.

### ABOUT ALUMNI ASSOCIATION

CSA established along with first five Agriculture Colleges in the country in the year 1906, popularly known as the "Patthar College" Kanpur, was elevated to Chandra Shekhar Azad University of Agriculture and Technology, Kanpur on March 01, 1975. The university is an important Agricultural University of India and has made substantial contributions in quality human resource development and technology development through its endeavors in Education, Research and Extension. This University has the rare distinction of providing as many as 23 Vice Chancellors of different Universities from amongst its alumni. Our alumni have made their mark by their sound knowledge and diligence where ever they are employed and have upheld the glory of their *Alma Mater* across the globe. The Alumni Association of C. S. Azad University of Agriculture and Technology, Kanpur was constituted on September 6, 2006 with its registration No. K-37915/472/2007-08 under Societies Reg. Act. 1860. It is a vibrant and dynamic body of its high profile members contributing to make this university best in agricultural education, research and technology dissemination. The main focus of this association is to energize, sensitize and catalyse all its members to actualize their potential in order to achieve the aims and objectives i.e. All round development of C.S.A. University and fraternity among its Hon'ble members. The Association has the credit to successfully organized five Alumni Meet, AGM and two National Symposium/Seminars.

### FOR DETAILS

**Prof. (Dr.) Munish Kumar**  
Organizing Secretary (NCFCASD) &  
General Secretary, Alumni Association  
Department of Agribusiness Management  
C.S.Azad University of Agriculture & Technology  
Kanpur - 208 002, India  
Phone : 0512 - 2534164, Fax : 0512 - 2533808  
Mob. : 9838109895 • E-mail : munish.csa@gmail.com  
Website : [www.csauc.ac.in](http://www.csauc.ac.in)



**6<sup>th</sup> Alumni Meet**

&

**National Conference**

on

**Farmers' Centric Agri-innovation  
for Sustainable Development**

February 18-19, 2017

Venue

C.S. Azad University of Agriculture & Technology, Kanpur



Organized by  
Alumni Association  
Chandra Shekhar Azad University of Agriculture & Technology,  
Kanpur (U.P.) 208 002 India