



**UPCAR Sponsored**

**Ten days Short Course Training Programme  
on**

**“Climate-Resilient Seed Systems for  
Sustainable Agriculture in Uttar Pradesh”**

**September 21-30, 2026**



**ICAR-National Institute of Seed  
Science & Technology,**

**ICAR Parisar, Kushmaur, Mau,  
Uttar Pradesh-275 103, India**

### **Contact Us**

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### **Chief Patron**

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Uttar Pradesh Council of Agricultural Research  
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DDG, UPCAR, Lucknow

### **Course Director**

**Dr. Kalyanrao**  
Senior Scientist  
ICAR-NISST, Mau

### **Course Co-Director**

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| <b>Dr. Anjani Kumar Singh</b><br>Principal Scientist | <b>Dr. Kalyani Kumari</b><br>Senior Scientist |
| <b>Dr. Banoth Vinesh</b><br>Scientist                | <b>Dr. Pavithra V</b><br>Scientist            |

### **Invitation**

The ICAR-National Institute of Seed Science & Technology (ICAR-NISST), Mau, cordially invites researchers, academicians, seed professionals and stakeholders to participate in a 10-day short course training programmes on “Climate-Resilient Seed Systems for Sustainable Agriculture in Uttar Pradesh.”

**(Dr. Kalyanrao)**  
Course Director

### **About the Training**

Agriculture in India is increasingly challenged by climate change, including erratic rainfall, rising temperatures, floods, droughts and emerging pest and disease problems. These challenges affect crop productivity, seed quality and farmers livelihoods. Developing climate-resilient seed systems is therefore essential for ensuring sustainable agricultural production, seed security and climate resilience.

Quality seed of climate-resilient and high-yielding varieties is the foundation of sustainable agriculture. Strengthening decentralized seed production, seed villages, community-based seed systems, quality assurance and efficient seed distribution can significantly improve farmers access to quality seed and enhance productivity under changing climatic conditions. Recent advances in seed science, molecular tools, digital technologies and climate-smart agricultural practices offer new opportunities to build resilient seed systems.

The ICAR-National Institute of Seed Science and Technology (ICAR-NISST), Mau, under the sponsorship of the Uttar Pradesh Council of Agricultural Research (UPCAR), is organizing a Ten-day Short Course Training Programme on "Climate-Resilient Seed Systems for Sustainable Agriculture in Uttar Pradesh" during September 21-30, 2026. The programme is designed to enhance the knowledge and practical skills of scientists, extension personnel, seed professionals, and other stakeholders in developing and promoting climate-resilient seed systems for sustainable agriculture.

## Objectives

1. Enhance understanding of climate-resilient seed systems and their role in sustainable agriculture.
2. Strengthen knowledge on climate-resilient crop varieties and quality seed production technologies.
3. Provide practical exposure to seed production, processing, testing, storage and certification.
4. Build capacity on community-based seed systems, seed villages and seed enterprises.
5. Familiarize participants with recent advances in seed quality assurance, molecular tools, and digital technologies.

## Course Contents

- Climate-resilient farming systems and the role of quality seed
- Climate-resilient crop varieties and innovative seed production technologies
- Hybrid seed production in field crops and vegetable seed production under protected cultivation
- Seed quality enhancement through pelleting, encrustation, seed coating, bio-priming and seed invigoration
- Advances in seed testing, vigour evaluation and hands-on laboratory techniques
- Seed health management, phytosanitary measures, and detection of storage pests
- Biotechnology, genome editing and molecular tools for climate-resilient seed systems
- Seed testing for GMOs and regulatory mechanisms
- Seed traceability, digital quality monitoring and climate-controlled seed storage
- OECD Seed Schemes, seed quality assurance, legislation and international seed trade
- Seed marketing, branding, supply chain management, community seed banks and Seed Village Programme
- Exposure visits to premier seed research institutes and practical demonstrations

### Eligibility

The programme is open to postgraduate students, scientists, academicians and extension personnel from ICAR institutes, Central/State Agricultural Universities, KVKs and other organizations engaged in agricultural and allied sciences. Preference will be given to candidates specializing in or working in the field of Seed Science and Technology.

### Date and Duration

**September 21 to 30, 2026 (10 Days)**

### Boarding and Lodging

Boarding and lodging will be provided free of cost to all participants at the ICAR-NISST campus. No Daily Allowance (DA) will be admissible. Travelling Allowance (TA) will be reimbursed, restricted to AC III Tier rail fare (or equivalent bus fare where rail connectivity is unavailable) by the shortest route, on submission of original tickets and relevant documents.

### Important Dates

Last date for sending **31<sup>st</sup> August 2026**  
applications:  
Intimation to the **01<sup>st</sup> September 2026**  
selected applicants:

#### Registration

The online registration form is available at:  
<https://forms.gle/7Hzf6HZ6rweKZKCN7>  
In case of any inconvenience faced, the duly filled form can be sent through email id [patil.kalyanrao2829@gmail.com](mailto:patil.kalyanrao2829@gmail.com)

### ABOUT UPCAR

The Uttar Pradesh Council of Agricultural Research (UPCAR), established in 1989 by the Government of Uttar Pradesh, is the apex organization responsible for coordinating and promoting agricultural research, education, and technology dissemination across the state. UPCAR works closely with State Agricultural Universities, research institutions, and extension agencies to strengthen innovation in agriculture. It supports research on crop improvement, seed systems, natural resource management, climate-resilient agriculture, and sustainable farming practices. By fostering collaboration, capacity building, and technology transfer, UPCAR plays a pivotal role in enhancing agricultural productivity, ensuring food and nutritional security, and improving the livelihoods of farmers throughout Uttar Pradesh.

### ABOUT THE INSTITUTE

ICAR-National Institute of Seed Science & Technology (ICAR-NISST), Mau, is India's only premier institute dedicated exclusively to seed science and technology research. Its journey began in 1979 with the National Seed Project, later evolving into the Directorate of Seed Research in 2004, the Indian Institute of Seed Science in 2016, and finally ICAR-NISST under the EFC approval for 2021-26. Strategically located at Kushmaur in Mau district, Uttar Pradesh-India's major seed production hub-the institute works closely with farmers and the seed industry. ICAR-NISST integrates traditional seed science with advanced biotechnology and molecular approaches to develop practical, research-based solutions for seed production, quality enhancement, testing and management. It plays a vital national role in ensuring farmers' access to high-quality seeds and supporting the growth of India's agricultural sector

### ABOUT MAU

Mau, located in eastern Uttar Pradesh, is known for its rich agricultural landscape and renowned handloom and textile industry, particularly sarees and zari work. Situated in the fertile Ganges-Ghaghara plains, the district provides an ideal setting for agricultural research and development. ICAR-National Institute of Seed Science and Technology (ICAR-NISST) is located at Kushmaur, Mau, serving as a premier institute for seed science, technology, and quality assurance in India.

Application Form for UPCAR Sponsored  
**Ten days Short Course Training Programme on**  
**Climate-Resilient Seed Systems for Sustainable Agriculture in Uttar Pradesh**  
**September 21-30, 2026**  
**ICAR-National Institute of Seed Science & Technology,**  
**ICAR Parisar, Kushmaur, Mau, Uttar Pradesh-275 103, India**

1. Name of the applicant :
2. Designation :
3. Area of specialization :
4. Date of birth :
5. Gender :
6. Full official address :

7. Phone no :
8. Email id :
9. Experience in Teaching/ :  
Research/ Extension

**Declaration by the candidate**

This is to certify that the information furnished in the application is correct to the best of my knowledge

(Signature)

Name:

**For use by the forwarding authority**

Application of Shri/ Ms/ Dr..... is recommended and forwarded to participate in the 10 days short course training programme on “Climate-Resilient Seed Systems for Sustainable Agriculture in Uttar Pradesh” organized by ICAR-National Institute of Seed Science & Technology, Kushmaur, Mau, Uttar Pradesh-275103 from 21<sup>st</sup> to 30<sup>th</sup> September, 2026.

Date:

Name:

Signature with seal