



# **Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, Madhya Pradesh**

**FIVE DAYS ONLINE PROGRAM**

## **LECTURES ON SPATIAL DATA USE IN AGRICULTURE**

**FEB 08-12, 2021**



*Organized by*

**NAHEP-CAAST**

**Skill Development to Use Spatial Data for Natural Resource  
Management in Agriculture**

**College Of Agriculture Engineering, JNKVV, JABALPUR,  
M.P. INDIA,**

Project Website: [www.nahep-jnkvv.org](http://www.nahep-jnkvv.org)



## **About Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur**

Jawaharlal Nehru Krishi Vishwavidyalaya established on October 2, 1964, is a forerunner university located in Jabalpur, Madhya Pradesh. The university is awarded Sardar Ballabh Bhai Patel Outstanding University Award for the year 2018 by the Indian Council of Agricultural Research, New Delhi. The university has various constituent colleges, Agricultural Research Stations, and Krishi Vigyan Kendra's. The University offers Bachelor's, Master's, and Doctoral degrees in the Faculty of Agriculture and the Faculty of Agricultural Engineering. The University also offers diploma courses of two years in "Seed Production" and "Nursery Management" at Horticulture Vocational Education Institute, Garhakota, Sagar, MP.

## **About NAHEP**

NAHEP is designed to strengthen the national agricultural education system in India with overall objective to provide more relevant and high quality education to agricultural university students. This programme has been promoting efficiency and competitiveness through changes in working mechanism of agricultural universities, raising the teaching and research standards through improved research and teaching infrastructure and enhanced faculty competency and commitments, and making agricultural education more attractive to talented students.

There are four key components under NAHEP, namely; Institutional Development Plan (IDP), Centers for Advanced Agricultural Sciences and Technology (CAAST), ICAR to support excellence in agricultural universities (AUs), and ICAR Innovation Grants to AUs.

## **Skill Development to use Spatial Data for Natural Resource Management in Agriculture**

- To build basic capacity for using RS & GIS techniques applied for betterment of Natural Resource Management particularly in Agriculture and allied sectors.
- To identify appropriate techniques for integration of spatial and ground data to realize problems related to land, water and vegetation.
- To develop user friendly spatial data products using identified technologies for policy makers, researchers, field workers and farmers.



## **Chief Patron**

**Dr. P.K. Bisen**  
Honorable Vice-Chancellor, JNKVV, Jabalpur

## **Patrons**

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

**Dr. Prabhat Kumar**  
National coordinator, NAHEP, ICAR, New Delhi

**Dr. Dharendra Khare**  
Dean Faculty of Agriculture

**Dr. P.K. Mishra**  
Director Research Services

**Dr. (Smt) Om Gupta**  
Director Extension Services

**Dr. Abhishek Shukla**  
Director Instructions

## **Conveners**

**Dr. R. K. Nema**  
Dean, C.A.E, JNKVV Jabalpur & PI, NAHEP CAAST

## **Program Coordinator**

**Dr. M. K. Awasthi**  
Principal Scientist & Co-PI NAHEP (Skill Development)



## ABOUT THE ONLINE TRAINING

### Lectures on spatial data use in Agriculture

Online lectures on spatial data use in Agriculture, live mentorship from the subject matter expert having in-depth knowledge of the relevant field from highly reputed institutions like IIRS Dehradun. Access to shared resources, helpful in learning and practicing RS and GIS applications in Agriculture. Recording that can be viewed anytime.

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### Participants

Faculty/Researchers from SAUs/UGC recognized Institutes/Universities, Students of Master & Ph.D. Degree can participate in this online training program. This training program will help students/faculty to learn and apply RS and GIS applications in Agriculture.

**Registration Link:** For free online registration log on-

<https://bit.ly/3jdw3e1>

**Please note:**

E-Certificate will be issued to all the participants having 75% of the training attendance & 50% presence per attended session.



**Capacity Building Program**  
**Lectures on Spatial Data use in Agriculture**

Lecture N.	Title	Time	Date
L1	Basics of Remote Sensing (RS) and RS satellites data	10.30-11.30	08.02.2021
L2	Introduction to GIS and QGIS software	11.45- 12.45	
L3	Land use and Land Cover classifications: Visual and Digital methods	11.45- 12.45	09.02.2021
L4	RS in Land Degradation Assessment : Mapping salt-affected and eroded lands	10.30-11.30	
L5	RS applications in Soil Mapping and Land Use Planning	10.30-11.30	10.02.2021
L6	Crop discrimination and Acreage estimation	11.45- 12.45	
L7	RS in crop condition Assessment: biotic & abiotic stress	10.30-11.30	11.02.2021
L8	Microwave RS in Crop Inventory	11.45- 12.45	
L9	RS in crop Yield Modelling : Spectral Vegetation Index based Yield Model	10.30-11.30	12.02.2021
L10	RS and GIS applications in crop water requirement	11.45- 12.45	

**Online Platform**

Cisco WebEX link will be provided to registered participants only on first come first serve basis