

**Department of Agrometeorology**  
**College of Agriculture**  
**G.B. Pant University of Agriculture & Technology**  
**Pantnagar-263145, Uttarakhand**

**Research**

**Priorities:**

Department is focusing to conduct cutting edge research in the field of application of weather information for enhancing farm productivity by managing farm operations tailored to site-specific agro-ecological conditions. Application of advanced tools of crop simulation models, remote sensing, GIS and GPS for optimizing inputs, management operations, retrieving crop-biophysical parameters, pests and diseases monitoring and management, precision farming, and agro-climatic and agro-ecological zonation of Uttarakhand state are other areas of research where department has significantly contributed.

**Projects**

**Completed Projects**

Sr. No.	Name of Project	Funding Agency	PI	Co- PI
1.	<b>International Project on</b> Identification of suitable regions for Energy Plantation in Northern India using Remote Sensing and GIS (Completed)	Jointly by DST and ASTON, University, United Kingdom	Dr. Ajeet Singh Nain	--
2.	Soil and Vegetation Carbon Flux -National Carbon Project (NCP) (Completed)	Indian Space Research Organization (ISRO)	Dr. Ajeet Singh Nain	—

3.	<b>Niche Area of Excellence</b> project on “Geo-informatics for Natural Resource Management for Precision Farming”	Indian Council of Agricultural Research (ICAR), New Delhi	Dr. Ajeet Singh Nain	Dr. N S Murty Dr. Ramesh Chandra Dr. Vinod Kumar Dr. Yogendra Singh Dr. S P Singh Dr. A K Singh Dr. Sumana Roy
4.	Analysis of water requirements of different field crops using Lysimeter, AET, Pantnagar	India Meteorological Department (IMD), Pune	Dr. Ajeet Singh Nain	–
5.	Monitoring Diseases of Wheat in Uttarakhand using Remote Sensing (MDRS)	Uttarakhand Space Applications Center (USAC), Dehradun	Dr. Ajeet Singh Nain	Dr. Deepshikha, Asstt. Prof., Co-PI. Pathology
6.	“Participatory Technology Development & Green House Gas Reduction for Sustainable Production of Organic and Fair Trade Basmati Rice in India”	Inter-cooperation Social Development India (ICSD)	Dr. D. K. Singh Agronomy	Dr. Ajeet Singh Nain
7.	Digitization of Farm Boundary of Agricultural Farm of Pantnagar using Remote Sensing and GIS	University Farm, Govind Ballabh Pant University of Agriculture & Technology, Pantnagar	Dr. Ajeet Singh Nain	–

8.	Drought Monitoring in the major crops of Uttarakhand using Remote Sensing (DMRS)	Uttarakhand Space Applications Center (USAC), Dehradun	Dr. Ajeet Singh Nain	Dr. Sumana Roy, Asstt. Prof.
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## Ongoing Research Projects

<b>Sr. No.</b>	<b>Name of Project</b>	<b>Funding Agency</b>	<b>PI</b>	<b>Co-PI</b>
1.	GKMS	IMD, New Delhi	Dr. R.K. Singh	-
2.	FASAL	IMD, New Delhi	Dr. A.S. Nain	-