



CCS Haryana Agricultural University, Hisar

Introduction

The name of Haryana instantly conjures up the image of a State which combines both-antiquity and plenty. Haryana emerged as a separate state in the federal galaxy of the Indian Republic on November 1st 1966. Having just 1.37% of the total geographical area and about 2% of India's population, Haryana has carved a place of distinction for itself during the past four decades. Whether it is education, agriculture or industry, Haryana has marched towards modernity with leaps and bounds.

The Haryana Agricultural University was established on February 2nd 1970, as a result of bifurcation of the erstwhile Punjab Agricultural University. From 31st October, 1991 it has been renamed as "Chaudhary Charan Singh Haryana Agricultural University (CCS HAU)". The university is meant for research and education in the field of agriculture. The main campus of the University is situated at Hisar at a distance of 162 km North-West of Delhi on National Highway No. 10. Since its existence, it has been making rapid progress in building construction and has an excellent infrastructure. The University has one of the best developed campuses in India and fulfills academic and extra-curricular needs of the students. The University has its constituent colleges renowned for their academic importance like College of Agriculture, College of Agricultural Engineering and Technology, College of Basic Sciences & Humanities, College of Home Science and a Centre of Food Science & Technology which offer various UG, PG, Ph.D. degrees and many Diploma programmes.

Department of Agricultural Meteorology

The Department of Agricultural Meteorology (HAU) is unit of College of Agriculture and meant for studying meteorological/climatic aspects in relation with agriculture. This department is using these state of the art techniques in its wide range of research projects since a pretty long time. Focused on imparting teaching in the field of Agricultural Meteorology, this department is also fully devoted in researches sponsored by ICAR, DST India, SAC etc. This department has prepared many popular research outputs like 'Agroclimatic Atlas of Haryana' and other by using these techniques. Besides the scientists of this department, research

scholars and students of this as well as other departments use these techniques extensively in their researches.

Why the need of Courses on Remote Sensing & GIS at HAU

Remote sensing and GIS has been relatively young scientific discipline and is an area of fast emerging technology that witnessed phenomenal growth over the recent decades. These technological tools enhanced our capability for exploring, mapping and monitoring resources at local, regional and global scale. To provide vistas to the young generation to learn this technology, HAU a couple of years back, took a step to start a Diploma course and established a full functioning remote sensing and GIS lab equipped with relevant instruments. HAU designed a PG Diploma course of full year duration in the Department of Agricultural Meteorology at College of Agriculture. This post graduate course shall not only provide job avenues for students but also open a field of viable and effective interactions with national establishment related to various aspects of remote sensing and GIS. Main objective of this course is to develop multidimensional teaching and learning in the field of remote sensing and GIS application in agriculture and environmental management.

"PG Diploma Course Curriculum - Remote Sensing and GIS Applications in Agriculture and Environment"

Agricultural Meteorology is the nodal department to carry out all the functions of this course. As to provide a multi disciplinary approach to students for applying these technologies, various departments (Collaborative Departments-Soil Science, Forestry, Soil and Water Engineering) of this university having rich spatial knowledge and experience in their fields have also been associated with this course.

Eligibility to PG Diploma Programme

Bachelor degree in Agricultural Engineering/Computer Science /Civil Engineering /Electronics and Communication Engineering/ Information Technology / Agriculture /Forestry /Horticulture /Ecology/ Basic Sciences/Environmental



Science/Computer Application/ Arts with Geography subject. Preference will be given to the Master degree in Agriculture / Forestry/ Horticulture / Geography / Environmental Sciences / Geophysics/ Meteorology /Atmospheric Sciences /Earth Sciences Basic Sciences/ Computer Science/Mathematics/Statistics/Computer Application. It's a two semester program with the total intake capacity of 10 students every year. The application process starts in the month of May/June every year./

Faculty of Department

The department is currently headed by Dr. Raj Singh (Sr. Scientist), an eminent Agricultural Meteorologist. There is a great team of eight scientist at department itself and profound scientist/teacher/engineers of associating/collaborating departments of the university.

Research Infrastructure

- The department believes in 'liberty to learn' and provide open access to all kind of available data and facility of students/scholars. RS and GIS procured data, department has variety of geographical data like climatic and Automatic Weather Station (AWS) data of various locations, agricultural experiments etc. to carry out different and unique quality researches. Air conditioned Smart class rooms are prepared for better teaching and learning process for students.
- The GIS lab at this department has workstations, desktop PCs, Laptops, Kiosks, colour laser printer, scanners and plotters. On software continuum it has six licenses of ArcGIS and ERDAS each and many agricultural/meteorological analytical softwares. Procurement of more RS GIS licenses is under process. Exposure on GPS and other instruments is given to students during field studies.
- Library Facility - Nehru Library, the hub of academic and research activities of the University, is housed in a centrally located elegant building. It has a large collection of about 3.44 lakh volumes of books & other reading material and 573 current Indian and foreign print journals. A huge range of books/literatures is available on field of RS & GIS.

Job Orientation

Students passing out this course have vast job opportunity. Central government remote sensing organizations, State government remote sensing centers, Agricultural and environmental research institutes / Universities and academic institutes of Remote Sensing and GIS absorb these students. Beside this, huge job opportunities are also available in private sector and overseas as well. The Department of Agricultural Meteorology (HAU) itself advertises posts of Research Associates, Senior Research Fellows time to time. ●



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