

Take a printout of the application and get it approved by the competent authority of the institute/SAU. Upload the scanned copy of application through the above portal and then send duly signed copy along with DD/BPO of worth Rs. 50/- in favour of "Dean, CTAE" payable at Udaipur to the Course Director of the training programme by post.

Boarding and lodging

The lodging, boarding and travel expenses of the selected participants will be borne under the training budget as per University norms. TA will be paid on the production of the original tickets. The travel expenses will be restricted to a maximum of II AC charges (III AC charges for Assistant Professors) of train or bus and will be based on the criterion of pay scales of participants.

Important dates

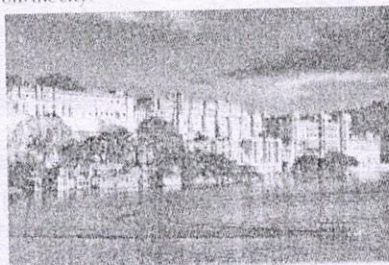
1. Last date for receipt of application
31st August 2019
2. Intimation of selection to participants
5th September, 2019
3. Last date for confirmation from participants
13th September, 2019

About the institute

Maharana Pratap University of Agriculture and Technology is one of the foremost institution dedicated for imparting agricultural education as a whole, undertaking agricultural and allied research and providing extension services in the state of Rajasthan in particular and the country in general. University is actively involved in upliftment of socio-economic conditions of farming community particularly tribal's in the south and south-eastern Rajasthan.

How to reach Udaipur

Udaipur the "City of Lakes" is one among the most romantic and most beautiful cities of India. The City of Dawn, Udaipur is a lovely land around the beautiful water lakes, hemmed in by the lush green hills of the Aravalli's. It is easily reachable from all major cities of the country including Delhi, Mumbai, Ahmedabad, Kolkata, Jaipur etc. It is well connected by rail, road & air. The Udaipur city has an excellent network of roads to ensure comfortable journey. Railway station is well within the city limits. Udaipur Airport namely Maharana Pratap Airport near Dabok is located at a distance of 25 km from the city.



All Correspondence may be addressed to:

Dr. K. K. Yadav

Course Director

Department of Soil and Water Engineering,

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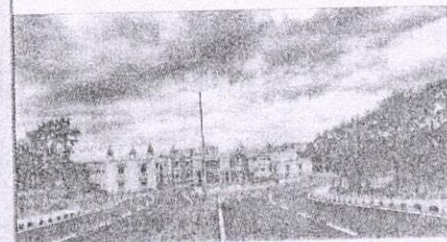


ICAR Sponsored
SUMMER SCHOOL



on
**Up-scaling of water productivity
in arid and semi-arid areas for
sustainable agriculture**

(3rd-23rd October, 2019)



Course Director

Dr. K. K. Yadav

Course Coordinators

Er. Manjeet Singh

Dr. B. G. Chhipa

Organized By
Department of Soil & Water Engineering
College of Technology and Engineering
Maharana Pratap University of Agriculture
and Technology, Udaipur (Raj.)

Preamble:

More than 70% of the earth's surface is covered with water but in reality 97.3% of total water on the earth is saline and only 2.7% is available as fresh water. About 77% of this fresh water is locked up in glaciers and permanent snow and 11% is not extractable. About 11% of the resources are available as extractable groundwater within 800 m depth and about 1% is available as surface water in lakes, reservoir and river systems. For adequate living standards as in the western and industrialized countries, a renewable water supply of at least 2000 m³ per person per year is necessary. If per capita water is less than 1700 m³ per year then the country is classified as "water stressed" and if it is less than 1000 m³ per year then the country is classified as "water scarce". In India per capita per year water resources has been continuously declining from 5176 m³ in 1951 to 4732 m³ in 1955, 2200 m³ in 1991, 1869 m³ in 2001 and 1703.6 m³ in 2007.

Agriculture sector is the largest consumer of water (82.8%) but with growing population, urbanization and industrialization in the country, the requirements of water from competing sectors like domestic and industrial needs are increasing.

The problem of equity, timeliness and reliability and the low efficiency in regard to conveyance, distribution and application of irrigation are considered as a main cause for the low productivity of irrigated agriculture and also of the low satisfaction level among the farmers of irrigated areas. The overall efficiency in most irrigation systems is very low and there is sufficient scope of improvement.

The increasing demand for food, feed and

fodder can be fulfilled only when water use efficiency and productivity would be increased at individual field level. Therefore, a number of improved water management measures are required to be adopted. Improved irrigation water management, water supplies at critical stages of crop growth can alleviate stress and increase yields significantly. Keeping in view the above facts, this 21 days training is being organized for capacity building of teachers/researchers/extension specialists on "Up-scaling of water productivity in arid and semi-arid areas for sustainable agriculture" for enhancing knowledge and skills on advanced water management techniques.

Course content

The course content of this training will broadly cover the topics:

- Availability of water resources
- Basics of crop water requirement
- Strategies for enhancing water use efficiency
- Concept and need of water saving farming system in arid and semi-arid areas
- Deficit irrigation, irrigation methods
- Improvement of on-farm water use efficiency
- Integrated nutrient management
- Rain water harvesting
- Agronomic practices for higher water productivity
- Quality of irrigation water
- Challenges in up-scaling of water productivity in tribal areas
- Sensor based drip irrigation system
- Hi-tech horticulture
- Water management in salt affected area
- Artificial recharge techniques

- Plastic lined farm pond technology
- Use of remote sensing and GIS for water resources management
- Water budgeting and crop planning
- Administrative role in up-scaling of water productivity
- Role of farm machinery in enhancing water productivity
- Current advances in modern crop production practices
- Practical sessions on advance facilities/equipments

Eligibility

- Master's Degree in Agriculture (in any discipline), Agricultural Engineering, Home Science, Animal Husbandry etc.
- Working not below the rank of Assistant Professor/ SMS and equivalent in the concerned subject in Agricultural University/ICAR Institute.

How to apply

As per the ICAR instructions, the interested candidates should register and apply online through Capacity Building Programme (CBP) portal as follows:

Visit the Capacity Building website link <http://www.iasri.res.in/~cbp/> or click on Capacity Building Programme link on webpage <http://www.icar.org.in/> or visit on <https://cbp.icar.gov.in>

Login using your user ID and Password or to create user ID use "Create New Account" link.

After login, click on "participate in Training" link and fill the performa using Bank / Post office Name, DD/ IPO number and date.