since 1989. WTC has made significant contributions in imparting several trainings on various aspects of water related issues in agriculture.

How to reach IARI

IARI is located at Pusa Campus in East Patel Nagar about 10 kms from 'Maharana Pratap-ISBT', 8 kms west of New Delhi Railway Station, and about 16 kms east of Indira Gandhi International Airport. Pre-paid taxi/ auto can be availed at railway/ airport/ bus stations to reach at IARI, Pusa Campus, New Delhi.

Applications may be sent to:

Dr. Ravinder Kaur
Course Director, Water Technology Centre, ICAR-IARI, New Delhi-110 012;
Tel.: 011-25846790 (O); Mobile: 09811041187
Email: awmwtc2017@gmail.com

For further information please contact:

Course Coordinators:

1. **Dr. Khajanchi Lal,** Principal Scientist
   Water Technology Centre
   Mobile: 09811481358
2. **Dr. A. K. Mishra,** Principal Scientist
   Water Technology Centre
   Mobile: 09868846577
3. **Mrs. Rosin K. G.,** Scientist
   Water Technology Centre
   Mobile: 9968207158

Application form for Participation in Summer School

Application form

1. Full name (in block letters):_____
2. Designation:_____
3. Present employer and address: _____
4. Address for correspondence (Give E-mail, Tel. / Mobile No.):
5. Permanent address: _____
6. Date of birth: _____
7. Sex: _____
8. (a)Teaching/research/professional experience (Mention posts held in last 5 years):

   (b) Present area of research and no. of publications:

   _____
9. Mention if you have participated in any Summer/ Winter School/Short Course etc. during previous year under ICAR/any other organization (Give details of course, organizers, duration/dates/year etc.): _____
10. Registration fee of Rs. 50/- (DD/Postal Order No_____ dated _____(in favor of Director, IARI) (Non-refundable)
11. Academic record (Indicate in tabular form examinations passed from B.Sc. degree onwards, Main subjects, Year of passing, Class/ rank/distinction, University/ Institution, Other information): _____
12. Signature of applicant (indicate name of place and date):
13. Recommendation of the forwarding Institute (Signature with date, designation/address):

Certificate

It is certified that the above information was furnished as per the office record and was found correct.

(Signature & Designation of sponsoring authority)

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Summer School

on

"Advances in Water Management Practices for Enhancing Water Productivity in Agriculture"

25th October -14th November 2017

Sponsored by

Indian Council of Agriculture Research

Organized by

Water Technology Centre
Indian Agricultural Research Institute
New Delhi-110012

Rationale of the course

Irrigation has played a major role in increasing the food production, bringing more area under cultivation and achieving food security in India. However, large scale introduction of canal network without proper drainage facility disturbed the groundwater equilibrium and created the problem of water-logging and salinity in several irrigation commands. Water-logging and salinity has created un-favorable condition for crop production and environmental sustainability. At the same time overexploitation of groundwater in and outside the command areas has resulted in decline of groundwater levels. Due to this availability of freshwater for irrigation is expected to decline in the future. This will make necessary to use alternate source for irrigation such as poor quality ground waters and municipal wastewaters. Use of poor quality water in conjunction with fresh water is commonly practiced in the areas with limited fresh water and abundant poor quality water supplies. In peri-urban areas, farmers use untreated wastewaters, either in solo or in conjunction with canal and saline ground waters. Wastewater often contains a variety of pollutants like salts, heavy metals, pathogens and other organic compounds. This may tend to accumulate in the soil and taken up by the crops, thus contaminating our food chain.Therefore, there is an urgent need to develop comprehensive fresh water and poor quality water development and utilization strategies for their efficient management.

Course content

The summer school will impart comprehensive knowledge on advanced concepts pertaining to fresh water, saline water and wastewater management. The course will comprise lectures on various principles and concepts of on-farm water management and soil moisture conservation under water scarcity conditions, advanced irrigation scheduling based on sensors and decision support systems (such as CROPWAT/AQACROP/ IMPASSE/USAR etc.) leading to efficient irrigation planning and water use efficiency, advances in management and remediation of marginal quality waters and wastewaters for agricultural reuse. The proposed training will also provide hands on experience on using modern instruments like Atomic Absorption Spectro-photometer, UV-Visible Spectrophotometers, Polarograph, Multi-Water Quality Parameter analyser, TDR, IRGA Meter, Flame Photometer, etc and on-farm practical classes on hydraulics of irrigation and drip, sprinkler and level basin systems.

Apart from this various field visits will also be organised to impart knowledge on real time field situations.

Who can participate?

This Summer School is meant for scientists / teachers/ subject matter specialists/ professionals of ICAR Institutes/ SAU's/ KVK's/ State Departments involved in research and development programs.

Eligibility

Eligible candidates must possess Master's Degree in any of the following fields: 1. Agricultural Physics/ Soil Physics & Soil - Water Conservation; 2. Water Science & Technology; 3. Agronomy & Water Management 4. Agricultural Engineering with specialization in SWC Engineering; 5. Environmental Sciences 6. Soil Science & Agricultural Chemistry/ Soil Science

How to apply?

Applications can be submitted in the prescribed format, as given herewith, and duly forwarded by the competent authority where the candidate is employed. Applicants may send their online nomination for the training through CBP portal site (http://iasri.res.in/cbp) as per the procedure mentioned. Hard copy of successfully uploaded application must be sent to the Course Director, after approval from the competent authority, along with a postal order/ DD of Rs 50/- (Non-refundable). The amount will be drawn in favor of "Director, IARI". Applicants may send an advance copy, in case of anticipated delay. However, the final selection will be made only after the receipt of the duly recommended application from the competent authority in the given format latest by **30 th September** 2017. The selected participants will be informed through email. In case of any query, please contact Course Director/ Course Coordinators. Only 25 participants shall be selected for the course.

Course duration

This summer school will be organized for 21 days w.e.f. **25th October - 14th November** 2017 at the Water Technology Centre, Indian Agricultural Research Institute, New Delhi-110012

Travel, Boarding and Lodging

The boarding, lodging and TA expenses of the selected participants will be met from the ICAR fund for the subject training program as per the stipulated norms and operational guidelines for the organization of Summer Schools. Participants will be paid to and fro fare for their journey by train (IInd AC) or bus or other means of transport in vogue, as the case may be, restricted to AC-II tier train fare. Actual TA will be paid on the production of original train or bus tickets by the participants. The participants will be provided shared accommodation in the Sindhu Guest House of the Institute. Participants are strictly advised not to bring any of their accompanying members during the training.

About IARI

Indian Agricultural Research Institute is the country's premier institution for research and higher education in the field of agricultural sciences. The primary mission of the Institute is to explore new frontiers of science and knowledge and develop human resources to provide leadership to the country in technology development and policy guidance.

About WTC

The Water Technology Centre (WTC) is an inter-disciplinary facility for research, teaching, training and extension in agricultural water management and designated as Centre of Excellence in Training (CET) by Ministry of Agriculture and Cooperation,