



INFORMATION BROCHURE

Ten Day's Short Course



Advances in Management of Physiological Disorders of Horticultural Crops

with special reference to natural farming systems

(20th February – 01st March, 2023)

Sponsored by

Education Division – ICAR, New Delhi

Course Director

DR FAROOQ AHMAD KHAN

(Professor (Plant Physiology) & Head

**Division of Basic Sciences and Humanities, Faculty of Horticulture
Sher-E-Kashmir University of Agricultural Sciences and
Technology of Kashmir, Shalimar, Srinagar (J&K)**

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IMPORTANT DATES

Last date for receiving duly filled applications	31-12-2022
Intimation to selected candidates	01-01-2023
Last date of confirmation by selected candidates	03-01-2023
Training Period	20-02-2023 to 01-03-2023

About The University

Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir is a prestigious Agricultural University located in Kashmir, Division of J&K, India. With its main campus and Faculty of Horticulture in Shalimar, Srinagar, the University has multiple campuses, colleges, and research & extension centers across the Kashmir Valley of J&K and Ladakh Union Territory.

It is a matter of great satisfaction that SKUAST-K has got 6th Rank among all the Agricultural universities of the country and has come out with flying colors in the recently declared Atal Ranking on Innovation achievements (ARIIA). The research infrastructure, educational base and extension education services provided by SKUAST-K are playing a pivotal role in supporting the UT of J&K in its efforts for overall development of economy in agriculture and allied sectors.

About The Division

The relevance and importance of Basic Sciences and Humanities in socio-economic aspects of farming community are recognized as a vital component and in this direction the Division of Basic Sciences & Humanities was established in February 2017 under Faculty of Horticulture, SKUAST-K. The Division is a multi-disciplinary and over the period of time has been progressing with fast pace in the field of Biochemistry, Plant Physiology and Microbiology, which resulted in development of some important technologies of economic importance as recognized by Indian Patent Office by granting patent within this short span of time. Further, the research on nutraceutical attributes of crops, Bio-fortification, nutrigenomics, functional foods, nutritional deficiencies, bioprospecting of underutilized crops, development of organic fertilizers, Hydroponics, seed invigoration, physiology of stress and physiological disorder management and studies on plant microbe interaction has paved a plinth in consequent advanced research in these areas. The Division has three mandates viz Teaching, Research and Extension in the field of Biochemistry, Plant Physiology and Microbiology.

Course Background

Physiological disorders are the most common non-pathological problems encountered by modern fruit growers, and they are the result of disfunction or malfunction of the physiological processes of the fruit tissues caused by abiotic stresses such as temperature, relative humidity, moisture/water stress, chemicals, nutrient excesses and deficiencies. The physiological and nutritional abnormalities have a higher impact on the yield and quality of fruits. Many physiological problems, such as fruit drop, irregular bearing, and fruit cracking, impair fruit cultivation and prospective quality production. Various pre- and post-harvest illnesses and diseases not only diminish marketable output and quality of fruits, but may also risk human health. Therefore, in order to get the maximum benefit from fruits/vegetables one should produce the healthy fruits and follow appropriate post-harvest practices so that fruits can be available for a longer period of time with optimum quality. Hence there is a need to understand the reason for a specific cause and how to overcome it with a specific management approach. The training programme gives a comprehensive over-view of the cause, symptoms and remedial measures of different physiological disorders in fruit crops. Besides the programme is focused on the new technological information as well as practical knowledge about the disorders of important horticultural crops and their management hence shall be serving as a useful guide for students, scientists, extension workers, farmers and others associated with the discipline of Horticulture.

Objectives and Outline of the Training

Keeping in view the negative impacts of the physiological disorders on the fruit production and the quality parameters it seems imperative that the Researchers and Scientists shall formulate the strategies that can alleviate the loss caused due to the physiological disorders without any additional economic burden which in turn is impossible unless and until one does not have the basic knowledge of the causes of the physiological disorders. Hence this training programme was framed out with an objective to provide the participants with a cutting-edge knowledge of the different physiological disorders of the horticulture crops with a special emphasis on their management through different methodologies.

Eligibility

Participants from SAU's/ICAR institute/ KVKs etc. in the cadre of Assistant Professors or equivalent or above from

the disciplines of plant physiology/ biochemistry/ horticulture/ post-harvest technology/ Food technology or any other allied discipline are eligible. The number of participants for the programme is limited to 25 out of which 10% internal participants are permitted.

Travel, Boarding and Lodging

The participants will be paid for the journey, to and fro, restricted to AC-II/III-tier train fare or bus. Actual TA will be paid on submission of tickets by the participants. TA will be paid from the place of duty to the venue location and back by the shortest route. The participants will have to make their own arrangements to reach the university guest house. Srinagar is well connected by air and road. City transport service is available to reach the university. Participants are advised to make their return journey reservations before leaving for Srinagar.

Due to unavailability of train link from Jammu to Srinagar participants will be paid shared taxi fare like Tata Sumo/ Tavera/ Zyro Innova, Scorpio, Vans, etc. which are frequently available at taxi stands of Jammu and Srinagar. Participants should ask for ticket/receipt from drivers/ travel agency of vehicle which are necessary for reimbursement of TA. Participants will be provided free boarding and lodging by SKUAST-Kashmir as per ICAR norms for conducting Short Course. Participants are requested to inform the Course Director well in advance about their arrival and departure including date and time for the convenience of their stay during the course.

Candidates are informed to come with post-paid SIM card only. Local participants are not eligible for boarding and lodging, however, local hospitality i.e. working lunch, tea, etc. will be provided.

How To Apply?

- As per the ICAR instructions, the interested candidates should register and apply online through 'Capacity Building Programme' (CBP) portal of ICAR as follows:
- Visit the website <http://www.iasri.res.in/cbp> or click on Capacity Building Programme link under <http://www.icas.org.in>
- Login using your user ID and Password. To create user ID use "Create New Account" link.
- After login, click on "Participate in Training" link and fill the Proforma.
- 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 or send duly signed copy through proper channel to the Course Director by post along with registration fee. The advance scanned copy of the nomination may be sent by email

Registration Fee

The Participants are required to pay a sum of Rs. 50 (Fifty only) towards Registration fee (nonrefundable) as a demand draft or Indian Postal order in Comptroller, SKUAST-K, Shalimar Campus, Srinagar, Kashmir, J&K,190025

Weather of Srinagar

During the ending period of November temperature is little bit colder. The temperature range is 0°C to 16°C. Participants are advised to bring warm clothing along with them.

All correspondence may be addressed to:

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Course Director and Head

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