

CSIR Integrated Skill India Initiative

Training course on Basic Plant Tissue Culture



CODE: IICB-BPTC

Plant tissue culture has a wide application in academia as well as industry. The basic course of plant tissue culture at CSIR-IICB will be a combination of theory and hands-on training for learning plant tissue culture basic principles, techniques and methods. Training will be provided for media preparation, sterilization methods and maintenance of aseptic condition, explant preparation, callus induction and regeneration. This basic course is intended for beginners, to teach and train them in plant tissue culture techniques.

Educational Qualifications : B.Sc with Life Science as one of the subject

(Pursuing/Completed Degree)

Venue Of the course : CSIR-IICB (Jadavpur Campus)

Duration : 2 weeks(08th Sept 2025-19th Sept 2025)

Course Fees : Rs 5000/-(Inclusive of GST)

Training Course Content-

- Overview of plant tissue culture and its application
 Overview of Culture Types and Micropropagation
- Overview of the laboratory equipment required in plant tissue culture and training on hor to use them
- Overview of various types of plant tissue culture media and preparation, sterilization, and storage of media
- Preparation of explant
- Transfer of explant into culture media
- Induction of callus and maintenance of callus culture
- Preparation of regeneration media and overview of plant regeneration procedure
- Good plant tissue culture practice, including safety procedures, control of facilities, equipment, reagents, and phytohormones
- Introduction to Agrobacterium-mediated genetic transformation of plants (demonstration only)





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Training Methodology-	
	Theory on-Plant Totipotency , Callus Induction/clonal propagation Cell Suspension
	Various media for micropropagation of economically important plants
	Hands-on practical on- Good PTC practice, Media preparation, Micropropagation,
	Callus and Cell culture technique
	Introduction to Agrobacterium mediated genetic transformation of plants
Salient Features of the course:	
	Equal priority to theory and practical sessions
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	chemistry background
	Professional skill development, case study, evaluation and certification
	Lectures, assisted with multimedia aids
	Seats Available : 10 (Shortlisting will be based on first come-first serve
	policy and eligibility criteria of the course)
	Due to limited availability of seats, early registration through online
_	application is recommended .
	be based on fulfilment of eligibility conditions, availability of seat and
	number of single choice applicants for the course
	Once a candidate is shortlisted for a particular course, any request for
	change of course will not be accepted .
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> Refunds to the enrolled candidates will be made by	
	the institute in case of cancellation of the course
	due to low batch strength. Such candidates will be informed about
	withdrawal of course and refund of fees within stipulated time.

