Department of Biotechnology
College of Horticulture
Dr. Y.S. Parmar University of Horticulture & Forestry
Nauni, Solan 173 230 (H.P.)

Certificate Course on PLANT TISSUE CULTURE

Learn | Practice | Build Your Future






Objectives

- To impart technical education in plant tissue culture for development of skills for a successful career in entrepreneurship.
- To generate technically trained human resource for tissue culture industries.

Benefits of the Course

- Understanding of basic concepts and hand-on training on mass propagation of true to type, virus indexed/ disease-free micropropagated quality planting material of the commercially important crops.
- Skill learning in Plant Tissue Culture will be helping the candidates to employ in R&D laboratories, commercial tissue culture units as well as to open their own units on small/large scale for self-sustainability.

How to Apply

Duly-filled application form including relevant documents may be sent by registered/speed post to:

Head
Department of Biotechnology
College of Horticulture
Dr. Y.S. Parmar University of Horticulture & Forestry,
Nauni, Solan 173 230 (H.P.)

Contact: Phone: 0179252310
E-mail: hodbtc@uhf.ac.in

Key Dates & Course Details

Last Date to Apply	:	December 17, 2026
Date of Commencement	:	December 21, 2026 to March 20, 2027
Eligibility for Admission	:	10+2
Course Duration	:	03 Months
Number of Seats	:	25 (on merit basis)
Application Fee	:	₹ 100/- (Non-refundable) in form of demand draft (DD) in favour of Comptroller, Dr YS Parmar University of Horticulture and Forestry, Nauni, Solan (HP) India 173230
Course Fee	:	₹ 15,000/- excluding boarding & lodging (Accommodation may be provided in the University guest house/hostel on payment basis)
Location	:	Department of Biotechnology, College of Horticulture, Dr YS Parmar University of Horticulture and Forestry, Nauni, Solan (HP) India 173230

Contents to be covered

Unit 1: Introduction to Plant Tissue Culture

- Familiarity with plant tissue culture laboratory.
- Handling of instruments used in Plant Tissue Culture laboratories.
- Preparation of different solutions.
- Good laboratory practices (GLPs) for Plant Tissue culture laboratory.
- Guidelines for establishing an academic and commercial plant tissue culture laboratory.

Unit 2: Nutrient medium and its preparation

- Types of nutrient media and their composition.
- Plant growth regulators and their role in nutrient media.
- Hands-on training on preparation of nutrient medium and growth regulators.
- Sterilization techniques for medium.

Unit 3: Micropropagation

- Introduction to micropropagation and various steps involved in micropropagation.
- Types of explants used for tissue culture and their sterilization.
- Hands-on training on *in vitro* culture establishment.
- Subculturing of *in vitro* shoots.
- Hands-on training on *in vitro* rooting.
- Primary and secondary hardening of tissue culture-raised plants.

Unit 4: Cost-effective micropropagation

- Strategies for cost-effective micropropagation.
- Cost-effective methods for hardening.

Unit 5: Establishment of Plant Tissue Culture Unit

- Requirements for establishing a plant tissue culture unit.
- Packaging, handling and transport of tissue culture-raised plants.
- Certification of tissue culture-raised plants.

Contact Number:_____

Dr. Y.S. Parmar University of Horticulture & Forestry, Nauni, Solan (HP)

APPLICATION FORM FOR THREE MONTHS CERTIFICATE COURSE IN PLANT TISSUE CULTURE

1. Name in full (IN BLOCK LETTERS) :
2. Father's Name :
3. Date of Birth :
4. Permanent address :

5. Address for correspondence:

Paste recent passport size photograph here

6. Category (Gen/SC/ST/OBC/Others) : 7. Gender:

8. Nationality: 9. Aadhar card number :

10. Phone/WhatsApp Number: 11. Email ID:

11. Educational Qualifications :

Sr.No.	Examination Passed (10^{th} onwards)	Year of Passing	Marks Obtained (%)	Institution/Board/ University

(Attach attested copies of certificates in support of each examination/degree).

12. Any other relevant information:

I certify that the information furnished above is true and correct to the best of my knowledge.

Date: **(Signature)**