

*Plant Tissue Culture Laboratory*

**M.P. COUNCIL OF SCIENCE & TECHNOLOGY**

(Deptt. Of Science and Technology, Govt. Of M.P.)

Vigyan Bhawan, Nehru Nagar, Bhopal-462003 (M.P.)

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Applications are invited for training and internship programs in Plant Tissue Culture Techniques for Life Sciences faculties, research scholars and UG, PG students. The detail schedule of program is as follows:

**Training 01: Five Days Hands on Training Program on “Plant Tissue Culture Techniques”**

<b>Scheduled date</b>	:	26 <sup>th</sup> to 30 <sup>th</sup> March, 2019
<b>Eligibility</b>	:	UG, PG Students of Life Sciences, Faculties, Researchers, Persons working in relevant industries and entrepreneurs.
<b>Intake Participants</b>	:	10 Participants
<b>Course Fee</b>	:	Rs. 1500 per participant.

**Internship Program 02:** **15 Days Internship on Plant Tissue Culture Technology**

<b>Scheduled date</b>	:	1 <sup>st</sup> to 15 <sup>th</sup> Feb., 2019
<b>Eligibility</b>	:	Graduate & postgraduate students of Life Sciences.
<b>Intake Participants</b>	:	10 Participants
<b>Course Fee</b>	:	Rs. 1,000 per participant.

**Internship Program 03:** **15 Days Internship on Plant Tissue Culture Technology**

<b>Scheduled date</b>	:	16 <sup>th</sup> Feb. to 2 <sup>nd</sup> March, 2019
<b>Eligibility</b>	:	Graduate & postgraduate students of Life Sciences.
<b>Intake Participants</b>	:	10 Participants
<b>Course Fee</b>	:	Rs. 1,000 per participant.

**Terms and Conditions:**

1. The selection of participants will be on first come & first serve basis.
2. Demand draft is to be made in favour of “Director General” MPCST, Bhopal.
3. Application should send to In-charge, University Interaction and Training Cell (UI&TC), M.P. Council of Science & Technology, Vigyan Bhawan, Nehru Nagar, Bhopal-462003 at least one week before the commencement of respective training programme.
4. Preference should be given to candidate belonging to Madhya Pradesh.
5. Detailed information’s & application form is available on website [www.mpcost.nic.in](http://www.mpcost.nic.in)
6. For further queries contact Dr R.K. Garg, Incharge, Plant Tissue Culture Laboratory, MPCST, Bhopal on 0755-2433124; 2670447.

**Course Content**

Plant Tissue Culture is a practice used to propagate plants under sterile conditions, often used to produce clones of a plant. Different techniques in Plant Tissue culture offer advantages over traditional methods of propagation which includes the production of multiple clones of plants in the absence of seeds or pollinators necessary to produce seeds and mature plants. Also, it helps to produce plants in the sterile condition that results in disease-free plant production. Plant tissue culture technique is being utilized as an imperative tool to meet the green demands

## Training and Internship Programs on “Plant Tissue Culture Techniques”

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of the day by day increasing population. The constraints being faced today is the lack of awareness and limited resources in the rural areas of the developing countries which pulls back the swiftness and efficacy of this technique.

Course will cover Orientation lectures along with hands-on experience in a variety of plant tissue culture Techniques like media preparation, sterilization, explants preparation, aseptic inoculation, Callus induction, direct multiple shoot induction, multiplication, *in vitro* and *in vivo* Rooting, potting mixture preparation and acclimatization of tissue culture plants etc.

- Lecture on “Collection, Handling and Instrumentation of Plant Tissue Culture”.
- Stock solutions and preparation of MS medium.
- Ex-plants preparation, Aseptic inoculation, and Callus induction.
- Direct multiple shoot induction, Multiplication, *in vitro* and *in vivo* rooting
- Primary and Secondary Hardening.
- Establishment of primary culture from leaves/stem sections.
- Establishment of somatic embryogenesis from leaves/stem sections.
- Clonal Propagation from axillary buds.

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**REGISTRATION FORM**

Affix your  
recent passport  
size  
photograph  
with duly  
signature

**Title of the Training/Internship Program:**.....

**Program Dates:**.....

Name of Applicant (In Capital letters): .....

Father's Name:.....

Mother's Name:.....

Permanent Address:.....

City:.....State:.....

Contact Number:.....Email.....

Date of Birth:.....

Nationality:.....; Gender: Male/Female:.....;Category: Gen./ST/SC/OBC:.....

Educational Qualification from Higher Secondary onwards:

S. No.	Degree with Specialization	School/College/University	Year passing	Grade & %

**Present Status** (Faculties/Research Scholar/Students). .....

**Accommodation Required:** Yes/No.....

**Fee Details:** 1. Fee amount.....; DD/Cash.....DD No.....

Bank.....Issuing Date.....

**Declaration**

I hereby declared that all above given information are correct and best to my knowledge and belief. In case of any accident (within or outside the Council and laboratory), during the training program there would be no responsibility of the Council. Participant would be himself or herself responsible for it and they shall not claim for this.

**Date:**.....

**Place:**.....

**Signature of Candidate**