

COURSE CONTENT

1. Preparation of MS basal media
2. Pre-treatment techniques of explant
3. Surface sterilization techniques of explant
4. Preparation of explant of banana
5. Preparation of explant of sugarcane
6. Preparation of explant of potato
7. Preparation of explant of medicinal plants
8. Preparation of explant of fruit plants
9. Preparation of explant of flowering plants
10. Techniques of inoculation of a culture
11. Techniques of incubation of a culture
12. Techniques of subculture of a culture
13. Techniques of rooting
14. Concept of acclimatization and hardening

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Hands on training in

PLANT TISSUE CULTURE: BASIC COURSE

Date: 1st – 5th September 2026

Organized by

**Department of Agricultural Biotechnology
and Molecular Biology
College of Basic Sciences and Humanities
Dr. Rajendra Prasad Central Agricultural
University, Pusa**





About RPCAU

Dr. Rajendra Prasad Central Agricultural University (RPCAU), Pusa, was established on 7 October 2016 by upgrading the erstwhile Rajendra Agricultural University, which was founded in 1970. Located at Pusa in Samastipur district of Bihar, the University occupies a unique place in the history of agricultural education and research in India. Today, RPCAU stands as a premier institution dedicated to excellence in agricultural education, research, and extension. The University offers multidisciplinary academic programmes and conducts cutting-edge research in agriculture and allied sciences to address emerging challenges in food security, climate resilience, natural resource management, and rural livelihoods. Through its strong outreach and extension network, RPCAU continues to contribute significantly to the sustainable development of agriculture and the welfare of farming communities across Bihar and the nation.

About training programme

Hands on training in Plant Tissue Culture: Basic Course focusses on the philosophy “*Standardizing commercial clonal propagation workflows.*”. It is a part of the Training Series, which aims to equip students, researchers, farmers, and entrepreneurs with industrial and entrepreneurial competencies in plant biotechnology. Moving beyond base solutions, this course immerses participants into the practical mechanics of micropropagation using economically vital regional crops. The training covers the entire lifespan of a micro propagated plantlet—from selecting, treating, and surface-sterilizing field explants to induction, rapid subculturing, and final rooting phases. Attendees will directly handle the unique initiation protocols required for mass-producing high-quality, disease-free clones of banana, sugarcane, potato, and valued medicinal strains. The training is tailored perfectly for participants who intend to transition basic laboratory knowledge into a functioning, scalable micropropagation enterprise or standard nursery setup. The course can be taken in series or as a standalone, to gain insight into the fascinating world of plant tissue culture.

Focus:

- Preparation of MS basal media and pre-treatment/surface sterilization of explants.
- Hands-on explant preparation protocols for: Banana, Sugarcane, Potato, Medicinal plants, Fruit plants, and Flowering plants. Core techniques: Inoculation, incubation, subculture, and induction of rooting.
- Concepts of acclimatization and hardening for field transfers.

Number of seats: 20 (2 seats reserved for RPCAU employees without payment of fee)

Eligibility: 10+2 students, UG students, faculty, scientists, lab technicians, entrepreneurs, farmers

Training fee: 3000 for students, 5000 for faculty/ scientists/ entrepreneurs, farmers

Click on the following link for registration

<https://forms.gle/doC9EDeKXnq3eP9>

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Last date for filling the application form: 31.08.2026

Fee payment link

The training fee can be transferred through NEFT, UPI, Net banking to the following account

Account Number: 4512002100000287

Name of Account holder: FBSH, RPCAU

Name of Bank and Branch: PNB, RAU, Pusa

IFSC code: PUNB0451200

Note: The training fee does not include the accommodation and food charges. The participants from other institutions will be provided accommodation in Kisan Ghar on payment basis.