

COURSE CONTENT

1. Preparation of MS basal media
2. Techniques of sterilization, inoculation and incubation of explant
3. Techniques of initiation and multiplication of callus culture
4. Techniques of initiation and multiplication of anther culture
5. Micropropagation techniques of banana
6. Micropropagation techniques of potato
7. Micropropagation techniques of pointed gourd
8. Micropropagation techniques of sugarcane

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Hands on training in PLANT TISSUE CULTURE: ADAVNCED COURSE

Date: 1st – 5th November 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: Advanced Course focusses on the philosophy “*Pioneering cellular optimization, genetic stability, and crop innovation*”. 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. This specialized module is dedicated to sophisticated cellular engineering and challenging micro-propagation architectures challenges participants with advanced tissue culture pathways, including the induction and kinetics of unorganized cell masses (Callus Culture) and the generation of haploid plants *via* specialized reproductive tissues (Anther Culture). Furthermore, it addresses difficult-to-propagate species like pointed gourd, optimization parameters for high-throughput scaling, and cellular regeneration kinetics. The course is geared toward advanced postgraduate scholars, doctoral researchers, faculty members, and industrial R&D scientists looking to master elite biotechnological applications for crop improvement, secondary metabolite extraction, and advanced clean-seed production pipelines.

Focus:

- Advanced preparation of MS basal media alongside automated/specialized sterilization workflows.
- Techniques of initiation and multiplication of Callus Culture.
- Techniques of initiation and multiplication of Anther Culture (haploid production).
- Targeted Micropropagation workflows: Banana, Potato, Pointed Gourd, and Sugarcane.

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

Eligibility: UG students, faculty, scientists, lab technicians, entrepreneurs, farmers

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

Tentative date: First week of November
faculty/ scientists/ entrepreneurs, farmers

Click on the following link for
registration

<https://forms.gle/VmRJXpPx2UZdgMRy8>

**Last date for filling the application
form: 30.10.2026**

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.