



Dr. Bhimrao Ambedkar University Agra
Department of Botany
School of Life Sciences, Khandari Campus

Value Added Course

Course name	SCOPE OF PLANT TISSUE CULTURE
Course Code	BOT -VAC-02
Duration	30 hrs
Course Coordinator	Dr. R.K. Agnihotri (Professor)
Organized by	Department of Botany, School of Life Sciences, Khandari Campus Agra

Program Specific Outcomes (PSO):

On completion of the course students will be able to:

- Propagate plants using in vitro techniques.
- Will be able to apply this technique for research in various areas.
- Skills required for employability in industry involved in mass propagation of disease free plants using this technique.

Course outcome (CO):

On completion of the course the student will be able to

- Propagate plants through tissue culture.
- Produce synthetic seeds and their conservation for future.

Course content:

Unit I – History, Scope and types of tissue culture, sterilization techniques, media preparation.

Unit II – Plant hormones and its use in tissue culture. Synthetic seed production and its uses.

Unit III - Micropropagation of explant and study of hardening stages.

Unit IV - Lab visit and report writing.

Books: Plant Tissue Culture by H.S.Chawla

, Application of Plant Tissue Culture, By Aditi Raj