

# Plant Nursery and Propagation Technology

*Department of Horticulture*

*Associated Depts.: Botany, Biotechnology, Seed Technology, Soil Science, Agronomy*

**No. of Seats: 50 / Course**

This course develops an understanding of plant propagation (seed and cuttings), nursery hygiene, plant health, potting mixes and soils, production efficiencies, marketing and management.

Students will be exposed to different modes of plant reproduction including seed reproduction, organizations and morphology of meristems, tissue and cell culture, liners rooting and the biology of adventitious roots, grafting, reproducing and propagation of transgenic plants, virus cleaning, haploid cultures and breeding and selection of vegetatively propagated plants, nursery management.

The nursery industry currently has a real need for people with skills and knowledge in managing production plant nurseries! This course provides a solid grounding for developing those skills.

On successful completion of this module, students should be able to:

Understand the principles of plant reproduction, vegetative modes of propagation, tissue and cell culture technology and propagation of plants.

The objective of the course is to:

- Develop skills and knowledge about propagating different types of plants by seed, cuttings, budding and grafting, separation, division and layering in a commercially viable way.
- Develop skills and knowledge about tools, equipment & growing structures used in a nursery for plant production.
- Develop general skills in horticultural practices and plant identification.

<b>Course Type</b>	<b>Course Duration</b>	<b>Credits</b>
Certificate	6 months / 1 Semester	30
Diploma	1 Year / 2 Semesters	60
Advanced Diploma	2 Years / 4 Semesters	120