

CERTIFICATE COURSE 2020-2021 YEAR

Name of Course: Plant propagation

Code: BOTCC01

Objective: Explain the various concepts and techniques of plant propagation

Outcome: By the end of the course, students are expected to

1. Understand the basic techniques of plant propagation
2. Understand the various basic principles behind the plant propagation
3. Realize the importance of plant propagation.
4. Explain the various methods of vegetative propagation.
5. Analyze and compare the importance of sexual and vegetative reproduction.

Eligibility: 1st semester UG students of the college

Syllabus: Plant propagation

Module-1

Propagation, sexual reproduction- its advantages and limitation, asexual reproduction – advantages and limitations.(5 hours)

Module-11

Propagation by seeds, dormancy , germination, apomixes, polyembryony (5 hours)

Module-111

Methods of vegetative propagation –principles of propagation by cuttings and practicing different type of cuttings. Methods of vegetative propagation-principles of budding techniques and its practice-T-budding, patch budding, chip budding.(5hours)

Module-1V

Methods of vegetative propagation- principles of grafting techniques and practicing different type of grafting - Tongue grafting, cleft grafting, approach grafting, side grafting (5 hours)

Module-V

Methods of vegetative propagation - principles of layering and practicing different type of layering - air layering, ground layering, mound layering. Micro propagation and its stages (10 hours).

Visit to CMPR or agricultural research station, Anakkayam is recommended References:

- 1) College botany, volume 1 and 11, Dr B P Pandey, S CHAND publication
- 2) Plant propagation, Alan Toogood and Graham Clarke