

AMH22 SEED PRODUCTION OF VEGETABLE, TUBER AND SPICE CROPS

UNIT-1 THEORY:

- 1.1 Introduction and history of seed industry in India.
- 1.2 Definition of seed.
- 1.3 Differences between grain and seed.
- 1.4 Importance and scope of vegetable seed production in India.
- 1.5 Principles of vegetable seed production.
- 1.6 Role of temperature, humidity and light in vegetable seed production.
- 1.7 Methods of seed production of cole crops, root vegetables, solanaceous vegetables, cucurbits, leafy vegetables, bulb crops, leguminous vegetables, Tuber crops, Spice Crops and exotic vegetables.
- 1.8 Seed germination and purity analysis.
- 1.9 Field and seed standards.
- 1.10 Seed drying and extraction.
- 1.11 Seed legislation.

UNIT-2 PRACTICAL

- 2.1 Study of seed structure, colour size, shape and texture.
- 2.2 Field inspection of seed crops.
- 2.3 Practices in rouging.
- 2.4 Harvesting and seed extraction.
- 2.5 Germination and purity analysis.
- 2.6 Seed processing machines.
- 2.7 Visit to seed production units.

Reference Books:

1. G.N. Kulkarni, 2002. Principles of Seed Technology. Kalyani Publishers, Ludhiana.
2. L.O. Copeland, 1999. Principles of Seed Science and Technology. Springer Publications.
3. N.P. Nema, 1988. Principles of seed certification and Testing. Allied Publications.
4. P. Hazra and M.G. Som, 2009. Vegetable seed production and Hybrid Technology. Kalyani Publishers, Ludhiana.