

# AMH20 POTATO AND TUBER CROPS

## UNIT-1 THEORY

- 1.1 Origin, area, production, economic importance and export potential of potato and tropical, sub-tropical and temperate tuber crops; description of varieties and hybrids.
- 1.2 Climate and soil requirement, season; seed rate; preparation of field; planting practices; spacing; water, nutrient and weed management; nutrient deficiencies.
- 1.3 Use of chemicals and growth regulators; cropping systems.
- 1.4 Harvesting practices yield; economic of cultivation.
- 1.5 Post- harvest handling and storage, marketing.
- 1.6 Crops to be covered-potato, sweet potato, arrow root, cassava, colocasia, xanthosoma, amorphophallus, dioscorea, Jerusalem artichoke, horse radish and other under exploited tuber crops.

## UNIT-2 PRACTICAL

- 2.1 Identification and description of potato and tropical, sub-tropical and temperate tuber crops;
- 2.2 Planting systems and practices; field preparation and sowing/planting.
- 2.3 Top dressing of fertilizers and intercultural and use of herbicides and growth regulators;
- 2.4 Identification of nutrient deficiencies, physiological disorders; harvest indices and maturity standards, postharvest handling and storage, marketing.
- 2.5 Seed collection, working out cost of cultivation,
- 2.6 Project preparation of commercial cultivation.

## Reference Books:

1. S. Thamburaj. 2014. Text book of vegetable, tuber crops and Spices. ICAR, New Delhi.
2. B.R.Choudhary 2009. A Text book on production technology of vegetables. Kalyani Publishers. Ludhiana.
3. T.K.Bose. 2002. Vegetable Crops. Nayaprakash. Kolkata
4. P.Hazra. 2011. Modern Technology in Vegetable Production. New India Publishing Agency. New Delhi.