

RESEARCH AND PG DEPARTMENT OF BOTANY

SACRED HEART COLLEGE, THEVARA

VALUE ADDED COURSE

COURSE COORDINATOR: Ms. Princy Mol A P

Co-Coordinator. Mr. Ebin P J

Seed Technology

15BOTVAC01

(30 Hours)

Objectives of the Course;

- Rapid multiplication of popular varieties.
- Timely supply of improved seeds in time and place.
- Assurance of high-quality seeds
- Availability of seeds at reasonable price
- Develop an insight on research on seeds, its processing and testing.

Module 1: Seed Production (6hrs)

Definition of seed, Difference between seed and crop production, types of seed production (Varietal and hybrid), Scope and importance of seed production, Crop/Season-wise Requirement and Availability of Certified/Quality Seeds in India, Scope for seeds export.

Module 2: Classes of seeds and Seed quality (4hrs)

Classes of seed; Breeder seed, Foundation seed, Registered seed, Certified seed, Differences between seed and grain, Characteristics of good quality seed; Physical Quality, Genetic purity, Physiological Quality and Seed Health. Seed and its multiplication, generation system of seed multiplication.

Module 3: Seed production techniques in paddy and Maize varieties (12hrs)

Varietal seed production, Stages of seed production, Land requirement, Isolation and selection of seeds, Selection of seasons based on area, Seed rate, Seed management techniques, Seed upgradation techniques, Sprouting of seeds, Hardening and other seed management techniques, Nursery Management, Nutrient Management, Sowing, Water management, Weed management, Pest management, Roughing, Harvesting, Seed treatment and storage, Seed certification.

Module 4: Seed Certification and Seed Act and Rules (6hrs)

Purpose of seed certification, Eligibility for certification of crop varieties, Phases of seed certification or Seed certification procedures, Seeds Act, 1966, Seed (Control) Order, 1983, Central Seed Committee, Central Seed Certification Board, New seed policy {1988}.

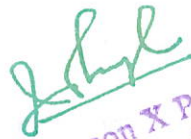
Module 5: Seed Marketing and Pricing policy (4 hrs)

A definition of seed marketing, Marketing structure; Seed distribution systems, Advertisement systems, Promotional activities. Pricing strategies, An overview of factors affecting the seed industry.

- Students would identify methods of multiplication of popular varieties.
- Students would learn how to make sure high-quality of seeds
- Students would learn the marketing of such seeds

MODE OF EVALUATION: Attendance, Assignments, Demonstration, Tests, etc.




Dr. Johnson X Palackappil
Principal
Sacred Heart College (Autonomous)
Thevara, Kochi-682 013