

Course Code	Course Name	TEACHING & EVALUATION SCHEME							
		THEORY			PRACTICAL		L	P	Credits
		END SEM University Exam	Mid-term exam	Teachers Assessment	END SEM University Exam	Teachers Assessment			
GUAGRI GPB 501	Fundamentals of Seed Technology	60	40	00	00	00	3	0	3

Legends: L - Lecture; P – Practical; C-Credit.

***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project /Participation in Class

Course Objective:

To study concept of seed and different aspect of seed technology.

Course Outcomes:

1. Student will be able to understand character and different class of seed
2. Student will be able to understand seed processing, assessment and seed marketing strategy

Unit-1:

Definition of Seed, Structure of Seed, Difference Between Seed and Grain, Concept of Seed technology, Role and goal of Seed technology, Agronomic Principles of Seed Technology.

Unit-2:

Definition of Deterioration, Causes of deterioration of crop varieties, Maintenance of genetic purity during seed production, Concept of seed quality. Characters of good quality seed, Different classes of seed Multiplication.

Unit-3:

Seed certification, phases of certification, field inspections. Seed Act and Seed Act enforcement. Duty and powers of Seed Inspector. Varietal identification through Grow Out Test and Electrophoresis.

Unit-4:

Concept of Seed drying and Methods of Seed Drying. Seed testing for quality assessment. Seed treatment, its importance. Seed storage and factors affecting seed longevity during storage.

Unit-5:

Seed marketing: structure and organization, Promotional media used in Seed Marketing. Factors affecting on seed marketing. Role of WTO and OECD in seed marketing.

Books:

1. Seed Technology, R. L. Agarwal, Oxford &IBH Publishing, New Delhi (2017)
2. Seed Technology, Dharendra Khare, M.S. Bhale, Scientific Publishers (India) 2017