GANPAT UNIVERSITY									
FACULTY OF AGRICULTURE, ALLIED SCIENCES & TECHNOLOGY									
Programme	B.Sc. (Hons)					Branch/Spec.	Agriculture		
Semester	III					Version	1.0.0.0		
Effective from Academic Year		2026-27			Effective for the batch Admitted in			July 2025	
Subject code	SEC05		Subject Name		Seed Production Technology*				
Teaching scheme						Examination scheme (Marks)			
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	0	0	2	-	2	Theory	0	00	0
Hours	0	0	4	-	4	Practical	100	0	100

Pre-requisites	
Not Applicable	
Course Outcomes	
On successful completion of the course, the students will be able to:	
CO1	Understand principles, importance, and classification of seeds in agriculture
CO2	Explain land preparation, sowing methods, and crop management for seed production
CO3	Apply seed production practices including pest management and post-harvest handling
CO4	Analyze seed quality, certification systems, and entrepreneurship opportunities

Practical Content-

1. Identification and classification of seed types
2. Seed purity and germination testing
3. Soil sampling and soil testing
4. Land preparation and seedbed formation
5. Demonstration of sowing methods and seed treatment
6. Irrigation and weed management practices
7. Emasculation and hand-pollination techniques
8. Pest and disease identification and management
9. Seed harvesting, drying, cleaning, and grading
10. Seed moisture measurement and storage
11. Certification tag identification and documentation
12. Preparation of a basic seed enterprise business plan

Reference book

Sharma, A. K.*Principles of Seed Technology*, Kalyani Publishers
Jain, M. K. & Mehta, K. R.*Seed Science and Technology*, Agrobios.
Copeland, L. O. & McDonald, M. B. *Principles of Seed Science and Technology*, Springer.
ISTA Rules – International Seed Testing Association

Mapping of CO with PO and PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	1	2	1	1	1	3	1	1	1	1	1
CO2	3	2	3	1	1	1	3	2	2	1	1	1
CO3	3	3	3	1	1	1	3	3	3	1	1	1
CO4	2	2	3	2	3	2	2	1	3	3	2	3

Note: Version 1.0.0.0 (First Digit= New syllabus/Revision in Full Syllabus, Second Digit=Revision in Teaching Scheme, Third Digit=Revision in Exam Scheme, Forth Digit= Content Revision)
L=Lecture, TU=Tutorial, P= Practical/Lab., TW= Term work, DT= Direct Teaching, Lab.= Laboratory work
CE= Continuous Evaluation, SEE= Semester End Examination

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