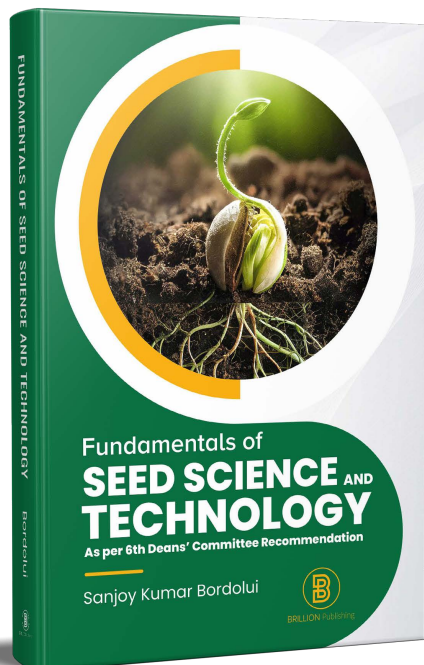




BRILLION Publishing

# Fundamentals of SEED SCIENCE AND TECHNOLOGY

As per 6th Deans' Committee Recommendation



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The book "*Fundamentals of Seed Science and Technology (As per 6th Deans' Committee Recommendation)*" was written with the course requirements for undergraduate degrees in seed technology from various universities in mind. The book was written in compliance with the UG syllabus recommended by the 6th Dean's Committee, which includes an introduction to seed technology, definition, and significance, and it covers a wide range of topics related to seed technology. It primarily discusses the definition and characteristics of high-quality seeds. Reasons why varietal purity deteriorates and how to evaluate genetic purity in various seed classes. Important cereals, pulses, and oilseeds, as well as their foundation and certified seed production, field inspection, significance, and protocols; management of post-harvest seed quality; methods for processing and drying seeds; the significance, application technique, and packing of seeds; general principles, stages, and variables influencing the longevity of seeds during storage; management of seed health while in storage; Seed certification and legislation; the Seed Act's enforcement; the duties and powers of the seed inspector; and infractions and penalties. Techniques for improving seed quality, the New Seed Bill of 2019, the Seeds Control Order of 1983, and the fundamentals of seed quality testing.

The draft proposal of "Fundamentals of Seed Science and Technology (As per 6th Deans' Committee Recommendation)" was also added for the benefit of the students and the personnel who engaged with Seed Science and Technology. This book covers all the points related to seed to suitably meet the needs of students, teachers and the person who engaged with Seed Science and Technology. This unique book will help the students and the person who engaged with seed to gain knowledge about seed.

## Features

- Attempts have been made to provide descriptions of basic concept of seed, seed production, certification, testing, processing, and storage. Where appropriate, the subject matter was depicted using figures and tables.
- Every chapter has been critically compiled and covers different seed-related topics, all of which have important implications for crop management and use. Each chapter explains the principles and demonstrates how they can be used to develop tools that increase crop productivity.
- According to the most recent revisions of the 6th Deans' Committee Recommendations, the book was written with the needs of graduate and postgraduate students, instructors, and research scientists in seed in mind.

**Sanjoy Kumar Bordolui**

## (Contents)

- Introduction to Seed Technology, Definition and Importance
- Seed Quality - Definition, Characters of Good Quality Seed
- Causes of Deterioration of Varietal Purity and Assessment of Genetic Purity
- Different Classes of Seed
- Foundation and Certified Seed Production of Important Cereals
- Foundation and Certified seed Production of Important Pulses
- Foundation and Certified Seed Production of Important Oilseed
- Seed Processing Procedures
- Seed Drying
- Seed Treatment, its Importance, Method of Application and Seed Packing
- Seed Storage - General Principles, Stages and Factors Affecting Seed Longevity During Storage
- Seed Health Management During Storage
- Seed Certification and Legislation
- Seed Act And Seed Act Enforcement, Duty and Powers of Seed Inspector, Offences and Penalties, Seeds Control Order 1983
- Seed Quality Enhancement Techniques
- Basics of Seed Quality Testing

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