



**MASTER OF AGROECOTEHNOLOGY
FACULTY OF AGRICULTURE
UNIVERSITY OF BENGKULU**

COURSE SYLLABUS

AGT-515: SEED SCIENCE AND TECHNOLOGY

Type of course : Compulsory

Credit unit : 3

Semester offered : 1

Course description

Discuss seed characteristics, seed growth process, dormancy phenomena, and seeds management and technology.

Learning outcome

Able to manage seeds based on their biological characteristics and improve their quality.

Course content

1. Characteristics of seed
2. Seed growth and development
3. Seed Vigor, Seed Longevity & Deterioration
4. Seed pathology
5. Seed processing and storage
6. Seed quality and quality testing
7. Seed conditioning and handling
8. Seed Enhancements (priming, pelleting, coating)

References

1. Egli, D. B. (1998). Seed biology and the yield of grain crops. CAB international.
2. Bennett, G. M., & Lloyd, J. (2015). Seed Inoculation, Coating and Precision Pelleting: Science, Technology and Practical Applications. Crc Press.
3. Copeland, L. O., & McDonald, M. F. (2012). Principles of seed science and technology. Springer Science & Business Media.
4. Rakshit, A., & Singh, H. B. (Eds.). (2018). Advances in seed priming (pp. 147-183). Singapore: Springer.