



COURSE SPECIFICATION 3rd SEMESTER :

Course Name : Problems on Modification of Crop Production
Code : KU 233
Credit : (2-2)

Course Description:

The objective of this subject is to provide the ability to identify, analyze, formulate and solve problems in sustainable crop cultivation engineering. Learning will be carried out using the Problem Based Learning strategy, with case studies prepared or identified through field observations. Teaching and learning process activities are not only tutorials in class, but also include assignments such as observations, group discussions, presentations and writing papers.

References:

- Copeland, L.O. 1986. Principle of Seed Science and Technology. Burgess Publishing Company, Minneapolis, Minnesota, USA.
- Leopold and Kriedman. 1981. Plant Growth and Development.
- Heddy, S., W.H. Susanto, dan M. Kurniati, 1994. Pengantar Produksi dan Penanganan Pasca Panen. Raja Grafindo Persada. Jakarta.
- Palaniappan. 1985. Cropping Systems in The Tropics. Wiley Estern Limited. New Delhi.
- Salisbury, F. B. and C. W. Ross.1995. Plant Physiology. Terjemahan Diah dan Sumaryono. ITB, Bandung.
- Supriyadi, A. dan T. Widyastuti, 2014. Organisme Pengganggu Tanaman dan Pengendaliannya. LP3M UMY. Yogyakarta
- Widyastuti, T., 2017. Teknologi Budidaya dan Agribisnis Tanaman Hias. CV Min. Yogyakarta.
- Williams. 1982. The Agronomy of The Major Tropical Crops.
- Williams, C.N. and K.T. Joseph, 1970. Climate, Soil and Crop Production in The Humid Tropics. Oxford University Press. Singapore.
- Yayock et.al. 1988. Crop Science and Production in Warm Climates

Topics:

1. Soil processing (land preparation)
2. Preparation of cropping material
3. Cropping and cropping systems
4. Crop maintenance
5. Crop protection
6. Post-harvest