HASANUDDIN UNIVERSITY

Agricultural Engineering Bachelor Program

2023
MODULE
DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023

Statistical Quality Control

Elective

Module designation	*Statistical Quality Control*
Semester(s) in which the module is taught	*Elective*
Person responsible for the module	*Dr. Ir. Supratomo, DEA* *Diyah Yumeina RD, STP., M.Agr., Ph.D*
Language	*Indonesia*
Relation to curriculum	*Elective*
Teaching methods	*Lecture*
Workload (incl. contact hours, self-study hours)	*(Estimated) Total workload:* *2 SKS x 1.7 = 3.4 ECTS = 91.8 hours* • *Lecture = 23.3 hours* • *Exercise = 28 hours* • *Sel study = 28 hours* • *Exam = 4 hours (MID term and final)* • *Exam preparation = 8.5 hours*
Credit points	*2 SKS = 3.4 ECTS*
Required and recommended prerequisites for joining the module	*Basic statistics*
Module objectives/intended learning outcomes	*ILO 4: Use quantitative analysis, information technology and critical thinking in agricultural engineering profession* *ILO 5: Use techniques, skills, and modern tools necessary for agricultural engineering practices*
Content	*TThis course is designed to introduce students to the concept of quality in a production process and apply statistical tools to ensure product quality. This course will teach students about statistical concepts, quality control, and application of statistical techniques as quality control tools.*
Examination forms	*Writing exam*
Study and examination requirements	*At least 80% attendance for students to be able to take the exam*
Reading list	1. *Walpole, R. E. and Raymond H. Myers. 2007. Probability and Statistics for Engineers and Scientists 8th ed. Pearson Prentice Hall. London. (Terjemahan: Pengantar Statistika edisi ke-3. 1993. PT. Gramedia Pustaka Utama, Jakarta.).* 2. *Montgomery, Douglas C. 2009. Introduction to Statistical Quality Control, 6th Ed. John Wiley & Sons, Inc. Danvers, MA.*