



**HASANUDDIN
UNIVERSITY**

**Agricultural
Engineering**
Bachelor Program

2023 MODULE DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023



Applied Statistics

Semester 2

Module designation	<i>Applied Statistics</i>
Semester(s) in which the module is taught	<i>II</i>
Person responsible for the module	<i>Dr. Ir. Supratomo, DEA Prof. Dr. Ir. Mursalim Prof. Dr. Ir. Junaedi Muhidong, M.Sc Diyah Yumeina RD, STP., M.Agr., Ph.D</i>
Language	<i>Indonesia</i>
Relation to curriculum	<i>Compulsory</i>
Teaching methods	<i>Lecture</i>
Workload (incl. contact hours, self-study hours)	<i>(Estimated) Total workload: 2 SKS x 1.7 = 3.4 ECTS = 91.8 hours</i> <ul style="list-style-type: none"> • <i>Lecture = 23.3 hours</i> • <i>Exercise = 28 hours</i> • <i>Sel study = 28 hours</i> • <i>Exam = 4 hours (MID term and final)</i> • <i>Exam preparation = 8.5 hours</i>
Credit points	<i>2 SKS = 3.4 ECTS</i>
Required and recommended prerequisites for joining the module	<i>Basic Mathematics</i>
Module objectives/intended learning outcomes	<i>Use quantitative analysis, information technology and critical thinking in agricultural engineering profession;</i>
Content	<i>This course will introduce students to the concepts of data presentation, processing data (frequency distribution, histogram and cumulative distribution function), estimation theory, hypothesis testing, ANOVA, correlation and regression, and non-parametric statistics.</i>
Examination forms	<i>Writing exam</i>
Study and examination requirements	<i>At least 80% attendance for students to be able to take the exam</i>
Reading list	<ol style="list-style-type: none"> 1. Asep Saifuddin, Khairil Anwar Notodipuro, Aam Alamudi dan Kusman Sadik. 2009. <i>Statistika Dasar. Basic Statistics</i>. PT. Grasindo, Jakarta. 2. Johnson, Robert and Patricia Kuby. 2008. <i>Elementary Statistics 10th Ed.</i> Thomson Brooks/Cole, Belmont, CA. 3. Walpole, R. E. and Raymond H. Myers. 2007. <i>Probability and Statistics for Engineers and Scientists 8th ed.</i> Pearson Prentice Hall. London. (Terjemahan: Pengantar Statistika edisi ke-3. 1993. PT. Gramedia Pustaka Utama, Jakarta.).