

Modul Description

Module name	Course Module
Module level, if applicable	Bachelor of Electronics Engineering
Code, if applicable	5215-187-2
Subtitle, if applicable	-
Course, if applicable	Statistics
Semester(s) in which the module istaught	4
Person responsible for the module	Lecturer of Courses
Lecturer	Dr. Muhammad Yusro, M.Pd, MT.
Language	Indonesian Language [Bahasa Indonesia]
Relation to Curriculum	This course is compulsory courses and offered in the 4 th semester.
Type of teaching, contact hours	<p>Teaching methods used in this course are:</p> <ul style="list-style-type: none"> - Lecture (i.e., group investigation, small group discussion, case study, and video-based learning) - Structured assignments (i.e., essays and case study) - Practice (i.e., computer simulation and case study in laboratorium) <p>The class size for lecture is 30 students. Contact hours for lecture is 27 hours, assignments are 32 hours</p>
Workload	<p>For this course, students required to meet a minimum of 91 hours in one semester, which consist of:</p> <ul style="list-style-type: none"> - 27 hours for lecture, - 32 hours for structured assignments, - 32 hours for private study
Credit points	2 credit points (equivalent with 3.00 ECTS)
Requirements according to the examination regulations	Students must have attended all classes and submitted all class assignments that are scheduled before the final tests.
Recommended prerequisites	Students must have attended all classes and submitted all class assignments that are scheduled before the final tests.

<p>Module objectives/intended learning outcomes</p>	<p>After completing the course and given with this case:</p> <p>Course Learning Objectives (CLO1): Mahasiswa mampu memahami dasar-dasar statistik (K1) (20)</p> <p>Course Learning Objectives (CLO2): Mahasiswa mampu menyimpulkan hasil interpretasi data (K1, S3, C2) (40)</p> <p>Course Learning Objectives (CLO3): Mahasiswa mampu mengambil keputusan dalam statistik (A1, K1, S3, C2) (40)</p> <p>Program Learning Outcomes (PLO2): Menerapkan ilmu-ilmu dasar untuk memecahkan masalah teknik elektronika</p> <p>Attitude (A1): Memiliki kejujuran dan tanggung jawab untuk berkarir secara profesional serta menjaga etika profesi.</p> <p>Knowledge (K1): Menerapkan matematika, ilmu dasar dan teknik dasar untuk merancang dan menganalisis untuk memecahkan masalah di bidang teknik elektronika.</p> <p>Engineering and Education Skill (S3): Mampu mencari alternatif solusi dan pemecahan masalah di bidang teknik elektronika</p> <p>Competence (C2): Mampu mengelola dan mengembangkan proses, sistem operasi, dan peralatan dengan mempertimbangkan dampak teknis dan nonteknis dari kegiatan industri di bidang teknik elektronika</p>
<p>Content</p>	<p>Students will learn about: Mata kuliah ini membahas tentang pengertian dan jenis statistik, prinsip dasar statistik, konsep dasar statistik, fungsi statistik dalam kehidupan sehari-hari, dan teknik dasar dalam pengolahan dan penyajian data secara kuantitatif berupa pengukuran data statistik dan penggunaan serta penafsiran hasilnya dalam bentuk grafik, tabel, ukuran gejala pusat, ukuran dispersi dan variasi, distribusi normal, statistika inferensial, variabel dan teknik pengambilan sampel, pengujian validitas dan reliabilitas, pengujian hipotesis dan perhitungan korelasi dalam penelitian sederhana.</p>
<p>Forms of Assessment</p>	<p>Assessment is carried out based on written examinations, assessment/evaluation of the learning process and performance with the following components: Sikap: 5%; Keterampilan umum: 5%; Keterampilan khusus: 20%; Pengetahuan: 70%</p>

Study and examination requirements and forms of examination	Study and examination requirements: <ul style="list-style-type: none"> - Students must attend 15 minutes before the class starts. - Students must switch off all electronic devices. - Students must inform the lecturer if they will not attend the class due to sickness, etc. - Students must submit all class assignments before the deadline. - Students must attend the exam to get final grade. Form of examination: Written exam: Essay
Media employed	Direct Whiteboard and Power Point Presentation.
Reading list	<ol style="list-style-type: none"> 1. David M. Lane. Introduction to Statistic (online edition). Rice University. 2. Kadir. 2018. Statistika Terapan. PT RajaGrafindo Persada, Depok. 3. Michael J de Smith. 2018. Statistical Analysis Handbook (2018 Edition). The Winchelsea Press, Drumlin Security Ltd, Edinburgh 4. Sudjana. 2005. Metoda Statistika. Penerbit Tarsito: Bandung. 5. Sugiyono. 2015. Statistika untuk Penelitian. Penerbit Alfabeta: Bandung. 6. Website: https://www.belajarstatistika.com/; http://onlinestatbook.com/