Educational Statistics

Module designation	Course Module: Educational Statistics
Semester(s) in which the module is taught	2 (even semester)
Person responsible for the module	1. Prof. Dr. Suyono, M.Si 2. Dr. Ir. Bagus Sumargo, M.Si
Language	Bahasa Indonesia
Relation to curriculum	Compulsory
Teaching methods	Lecture and Project
Workload (incl. contact hours, self-study hours)	For this course, students are required to meet a minimum of 232 hours in one semester, which consist of: 40 hours for lecture, 96 hours for structured assignments, 96 hours for private study.
Credit points	7.8 ECTS / 3 Credit Point
Required and recommended prerequisites for joining the module	Completing Mathematical Statistics course.
Module objectives/intended learning outcomes	Students are able to 1. Analyze data using descriptive statistical method. 2. Analyze data using inferential statistical methods, including test of normality, test of homogeneity, test about means of random variables, regression analysis, correlation analysis, path analysis, analysis of variance, and analysis of covariance. 3. Analyze data using a non-parametric approach.
Content	Students will learn about: The fundamental concepts of statistics, descriptive statistics, distribution of random variables, test of hypothesis, test of normality, test of homogeneity, test of means, regression analysis, correlation analysis, path analysis, analysis of variance, analysis of covariance, and non-parametric approach.
Examination forms	Assessment of the learning process according to the following components: assignments 20%; mid-term project 40%, and final-term project 40%.
Study and examination requirements	**Study and examination requirements:** • Students must attend 15 minutes before the class starts. • Students must inform the lecturer if they cannot attend the class due to sickness, etc. • Students must submit all class assignments before the deadline. **Form of examination:** Individual and group projects
Reading list	1. Siegel, Andrew F and Charles J. Morgan. 1996. *Statistics and data Analysis an Introduction*. 2nd ed. New York: John Wiley & Sons, Inc. 2. Gene V Glass. 1984. *Statistical Methods in Education and Psychology*. New Jersey: Prentice, Inc. 3. John. P. W. M. 1971. *Statistical Design and Analysis of Experiments*. The Macmillan Company, New York. 4. Suyono. 2015. *Analisis Regresi Untuk Penelitian*. Yogjakarta: Deepublish.

	5. Sudjana. 1985. *Teknik Analisis Regresi dan Korelasi Bagi Peneliti*. Bandung: Tarsito. 6. Sudjana. 2005. *Metoda Statistika*, edisi ke-6.Bandung :Tarsito. 7. Kusnendi. 2005. *Analisis Jalur (Konsep dan Aplikasi dengan Program SPSS & LISREL)*. Bandung: UPI Press. 8. Sugiyono. 2011. *Statistika Non Parametrik Untuk penelitian*. Bandung: Alfabeta. 9. Singgih Santoso. 2015. *SPSS 20 Pengolah data Statistik di Era Informasi*. Jakarta: Elekmedia Komputindo.