Module Description

Module name:	Statistics
Module level, if applicable	-
Code, if applicable	101D5213
Subtitle, if applicable	-
Courses, if applicable	Statistic
Semester(s) in which the module is taught	1
Person responsible for the module	 Sri Aliah Ekawati, ST., MT Sri Wahyuni, ST., MT
Lecturer	 Dr. Eng. Ihsan, ST., MT Dr. Eng. Abdul Rachman Rasyid, ST., M.Si; Sri Aliah Ekawati, ST., MT Laode Muhammad Asfan, S.T., M.T Sri Wahyuni, ST., MT Jayanti Mandasari Andi Munawarah Abduh, S.T., M.Eng
Language	Bahasa Indonesia/ English
Relation to curriculum	This course is one of mandatory subjects which is available in the first year/ first semester. Statistics is a science of estimation which is the basis for other courses related to the collection and calculation of data and samples.
Type of teaching, contact hours	The method used on calculus subject is self-directed learning method. A quiz will be given every meeting as soon as after the student have received course materials. The subject also has two kind of test which is given in the middle and the last semester.
Workload	This course consists of three credits in one meeting/ week= 330 minutes per week= 5280 minutes per semester (approximately 88 hours per semester).
Credit points	3
Requirements according to the examination regulations	The number of student attendance is at least 80% of the total meeting.
Recommended prerequisites	-
Module objectives/intended learning outcomes	 CLO 1 Students are able to understand and apply the basics of statistics, basic concepts of mathematical modeling and statistical modeling, statistics, inductive statistics, variables, population and samples, parameters and statistics, data and data driven concepts (supports ILO 1, PI-1/3). CLO 2 Students are able to understand, organize data, and apply it to real problems and draw conclusions from a group of data (supports ILO 2, PI-2/4). CLO 3 Students are able to understand the concept of random variable.
	ULO 5 Students are able to understand the concept of random variable

	 theory and probability as well as its use in sampling distributions and introduction to sampling techniques (supports ILO 3, PI-2/3, ILO 4, PI-1/3). CLO 4 Students are able to understand and apply the concept of estimation theory and variance of a population (supports ILO 3, PI-1/3 ILO 4, PI-1/3). 					
	The following table is mapping of the ILO and CLO in this course:					
		ILO 1	ILO 2	ILO 3	ILO 4	
	CLO 1	x				
	CLO 2		Х			
	CLO 3			X	X	
	CLO 4	·	(` T1`	X 1:		
	Statistic is a science of estimation. This course discusses about basic					
	knowledge of mathematics to solve problems on the basis of probability and can also carry out event predictions based on the concent of					
	sampling. The materials are absolutely used in measuring space of the					
The content and the relation to	line in first's studio assignment and the population projections in the data					
the studio works	collection studio as the second studio's assignment.					
	Additionally, the whole statistics materials are required to be learnt					
	before taking urban and regional economics as a compulsory course in					
	the data collection	on studio whic	h is in the se	econd semester.		
	1 Midterms Fx	3000 graded as range (30%)	lonows.			
	2. Final Exam (35%)					
	3. Quiz (15%)					
	4. Task (20%)					
	Per	centage of	Grade	Conversion V	alue	
Study and quantization	Aci	$\frac{1}{2} = 100$	Δ	4.00		
requirements and forms of		<u>80 - <85</u>	A-	3 75		
examination	7	$\frac{50}{5} - < 80$	B+	3.5		
	7	/0 - < 75	В	3.0		
	6	5 - < 70	B-	2.75		
	6	60 - < 65	C+	2.5		
	5	50 - < 60	C	2.00		
	4	0 - < 50	D	1.00		
		< 40	E	0.00		
Media employed	SIKOLA Zoon	n				
Reading list	1 Feller W	1983 An Int	roduction to	Probability T	heory and Its	
	Applications Vol I dan II Wiley Eastern Ltd New Delhi					
	2. Hogg, R. V. dan Craig, A. T. 1978. Introduction to Statistics.					
	McGraw-Hill Book Co., New York.					
	3. Hogg. R. V. dan Craig, A. T., 1978. Introduction to mathematical					
	statistics, edisi ke 4, John Wiley & Sons. New York.					
	4. Mendenhall	, w., Beaver,	к. J. dan Be	aver, B.M. 2009	9. Introduction	

	to Probability and Statistics. 13th Edition, Brooks/Cole, Cengage
	Learning, Florida.
5.	Snedecor, G. W. dan Cochran, W. G. 1967. Statistical Methods,
	Edisi ke 6. The lowa State University Press, Ames.
6.	Steel. R. G. D dan Torrie. J. H., 1976. Introduction to statistics.
	McGraw-Hill Book Co., New York.
7.	Suntoyo Yitnosumarto, 1990. Dasar-dasar Statistika. Rajawali pers.
	Jakarta.
8.	Walpole, R. E. 1993. Pengantar Statistika. Edisi 3. PT. Gramedia
	Pustaka Utama.
9.	Yitnosumarto, S. 1990. Dasar-dasar Statistika. Rajawali Pers.,
	Jakarta.