

TEACHING-LEARNING CONTRACT LEARNING PROGRAM OUTLINE LEARNING UNIT PROGRAM

STATISTICAL METHOD I PAS 101

No. Daft: 0067/BA/PMIPACCI Tgl. : 16-6-09

STATISTICS STUDY PROGRAM OF MATHEMATICS DEPARTMENT
MATHEMATICS AND SCIENCE FACULTY
DIPONEGORO UNIVERSITY
SEMARANG
2007

TEACHING-LEARNING CONTRACT

Course Title: Statistical Method I

Code : PAS 101

Credit: 3

Semester : I

1. Course Advantage

Statistical method I is a scientific study that study about on descriptive statistical and inferences statistical. Statistic relating with data and probability. On descriptive statistical contain with frequency distribution, some properties of expected value, and standard deviation. Statistical methods is an introduction from the others statistical analysis. Statistical method use in industrial, education, technic, mechanical, electrical engineering and so on. The inferences statistical contains hypothesis test, parameter estimation and interval estimation to give a decision making about existing data.

2. Course Description

This lecture represent to study about descriptive statistical and inferences statistical. Deskriptive statistical contain with frequency distribution, some properties of expected value, and standard deviation, distribution of random variable discrete and continu. While inferences statistical contain hypothesis test and estimation, simple linear regression analysis and one way analysis of variansi

3. General Instructional Aim

After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its because it is important the statistical model as base data analysis

4. Lecture Strategic

This lecturing uses two way teaching methods, that is lecturing and discuss. Each every student expected to earn active to ask concepts or things which still not yet been comprehended and or submit idea under consideration in the form of personal opinion which obtained from fact exist in its environment or which is obtained from source of bibliography which have been read.

5. References

- Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang
- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

6. Scoring Criteria

Criteria of scoring in this course is

A	4.0
AB	3.5
В	3.0
BC	2.5
С	2.0
CD	1.5
D	1.0
E	0.0

Scoring in this course title consist of three component, that is task, quiz, and examination. Examination will be held twice, that is mid-term and final exam. Midterm exam is arranged after seventh lecturing, while final exam item is arranged after fourteenth lecturing. Tasks consist of individual task and group task. Quiz is unscheduled programs.

Final score decision is based on this scoring indicator such as:

No	Component	Percentage
1.	Quiz	20 %
2.	Group Task and Individual Task	20 %
3.	Midterm	30 %
4.	Final Exam	30 %
	TOTAL	100%

9. Lecture Schedule

Week	Material	Reference
I	Introduction to Statistika; Data, Process used scales and measurement	[1] 1-32 [3] 1.1-1.32
2	Deskriptive statistical contain with frequency distribution, some properties of expected value, and standard deviation,	[1] 14-36 [3]2.1-2.44 [4] 5-6
3	Elements of Probability contain of sample space and event, probability and conditional probability	[1] 37-47 [3]3.1-3.39 [4]5-6
4	Distribution of random variable contain random variable and distribution of probability, expectation, variance and its properties, two random variable and properties of probability	[1] 37-47 [2]34-79 [3]4.1-4.41
5	Some probability distribution of discrete random variables (Binomial and Poisson)	[1]48-54 [2] 90-112 [3] 5.1-5.32
6	Normal Distribution and random sample.	1] 55-63 [2] 120-138 [3] 6.1-6.47
7	Introduction of SPSS.	[4] 1-3
8	Midterm.	· · · · · · · · · · · · · · · · · · ·
9 and 10	Elementary Concepts [of] inferensi.	[1] 62-78 [2] 203-278 [3] 7.1-7.35 8.1-8.26 9.1-9.40
1 and 12	Method of Kolmogorov and Smirnov.	[1] 92-95 [2] 284-287
13	1	[1] 96-113 [2] 300-324
14	, · · · · · · · · · · · · · · · · · · ·	[1] 123-129 [2] 390-401
15	test mean one sampel and two sampel.	[4] 4-10
16	Final Exam	

COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 1

A. INSTRUCTIONAL AIM:

1. GENERAL

: After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, students are expected to have ability explaining meaning of statistika and also explain data, process

scales and measurement

B. SUBJECT

: The meaning of Statistical

C. SUB SUBJECT

: The meaning of Statistical; data, process scales and measurement

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	 Describing about matter at the first meeting Describing about general and specific objectives competence 	Observing and taking notes	OHP, transparancy, white board, reference book, and paper
PRESENTATION	 Describing about the meaning of statistical; data, process scale and measurement Giving examples as a study case and solving together 	Observing, asking, taking notes	OHP, transparancy, white board, reference book, and paper
CLOSING	Discussion Giving description about matter on the next meeting	Discuss, asking, observing, taking notes	white board and paper

: Giving problems to the students.

F. REFERENCE

- 1. Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang
- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101/3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 2

A. INSTRUCTIONAL AIM:

1.GENERAL

: After studying this course, the student are expected to be able to

explain concepts something of modern statistika along with its

because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can summarize data result of

attempt in graph and table and also can calculated important value a

group of data

B. SUBJECT

: Discriptive statistical

C. SUB SUBJECT

: Frequency distribution, some properties of expected value, and

standard deviation.

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	 Describing about matter at the second meeting Describing about general and specific objectives competence Explaining descriptive statistical 	Observing and taking notes	OHP, transparancy, white board, reference book, and paper
PRESENTATION	 Explaining about frequencies distribution, some properties of expected value and standard deviation Giving examples as a study case and solving together Giving Task I (Individual Task) 	Observing, asking, taking notes	OHP, transparancy, white board, reference book, and paper
CLOSING	 Discussion Giving description about matter on the next meeting 	Discuss, asking, observing, taking notes	white board and paper

E. ASSESSMENT : Giving problems to the students.

F. REFERENCE

 Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang

- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 3

A. INSTRUCTIONAL AIM:

1.GENERAL

: After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its

because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can define probability and do

calculations various probability.

B. SUBJECT

: Probability elements.

C. SUB SUBJECT

: The sample space and even, an even probability, and conditional

probability

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	Describing about matter at the	Observing and	OHP, transparancy,
	third meeting	taking notes	white board,
	 Describing about general and 		reference book, and
	specific objectives competence		paper
	 Explaining concept of 		
	probability elements		
PRESENTATION	 Explaining about the sample 	Observing,	OHP, transparancy,
;	space and even, an even	asking, taking	white board,
	probability and conditional	notes	reference book, and
	probability	ļ	paper
Į	■ Giving examples as a study		
7.7	case and solving together		
CLOSING	Discussion	Discuss,	white board and
	Giving description about	asking,	paper
	matter on the next meeting	observing,	
		taking notes	

: Giving problems to the students.

F. REFERENCE

- 1. Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang
- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 4

A. INSTRUCTIONAL AIM:

1. GENERAL

: After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can explain result of quantitative attempt as random variable random and its properties and also calculate the expected value

B. SUBJECT

: Random variable and their distributions

C. SUB SUBJECT

: Random variable and their distributions, some properties of

expected value and variance, some properties of two random

variable

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	Describing about matter at the	Observing and	OHP, transparancy,
	fourth meeting	taking notes	white board,
	 Describing about general and 		reference book, and
	specific objectives competence		paper
	 Explaining Random variable 		
	and their distributions		
PRESENTATION	Explaining about the Random	Observing,	OHP, transparancy,
	variable and their distributions	asking, taking	white board,
	Explaining about some	notes	reference book, and
	properties of expected value		paper
į	and variance, some properties		
	of two random variable		
	Giving examples as a study		
	case and solving together		
	■ Giving Task II (Group Task)		
	·	1	
		, <u> </u>	

CLOSING	■ Discussion	Discuss,	white board and
	 Giving description about 	asking,	paper
	matter on the next meeting	observing,	
		taking notes	

E. ASSESSMENT : Giving problems to the students.

F. REFERENCE

- 1. Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang
- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 5

A. INSTRUCTIONAL AIM:

1. GENERAL

: After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its

because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can explain some properties of probability distribution and also can chosen appropriate

probability model.

B. SUBJECT

: Special probability distribution

C. SUB SUBJECT

: Binomial distribution and poisson distribution

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	 Describing about matter at the fifth meeting Describing about general and specific objectives competence Explaining some of special probability distribution 	ACTIVITIES Observing and taking notes	MEDIA OHP, transparancy, white board, reference book, and paper
PRESENTATION	 Explaining about the binomial distribution and poisson distribution Giving examples as a study case and solving together 	Observing, asking, taking notes	OHP, transparancy, white board, reference book, and paper
CLOSING	 Discussion Giving description about matter on the next meeting 	Discuss, asking, observing, taking notes	white board and paper

: Giving problems to the students.

F. REFERENCE

 Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang

- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 6

A. INSTRUCTIONAL AIM:

1. GENERAL

: After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its

because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can explain normal

distribution and can calculate probability as wide of normal curve.

B. SUBJECT

: Normal distribution and random variable

C. SUB SUBJECT

: Normal distribution and random sample

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING
INTRODUCTION	 Describing about matter at the sixth meeting Describing about general and specific objectives competence Explaining about the normal distribution and random variable 	Observing and taking notes	MEDIA OHP, transparancy, white board, reference book, and paper
PRESENTATION	 Explaining about the normal distribution and random sample Giving examples as a study case and solving together 	Observing, asking, taking notes	OHP, transparancy, white board, reference book, and paper
CLOSING	 Discussion Giving description about matter on the next meeting 	Discuss, asking, observing, taking notes	white board and paper

: Giving problems to the students.

F. REFERENCE

 Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang

- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 7

A. INSTRUCTIONAL AIM:

1. GENERAL

: After studying this course, the student are expected to be able to

explain concepts something of modern statistika along with its

because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can use SPSS program as one

of the data-processing

B. SUBJECT

: Introduction to SPSS

C. SUB SUBJECT

: Entry data, Edit data and descriptive statistical

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	Describing about matter at the seventh meeting	Observing and taking notes	Computer, white board, reference
	 Describing about general and specific objectives competence Explaining about the SPSS 		book, and paper
PRESENTATION	program to data prosesing Explaining about some of	Observing,	Computer, white
	menu in SPSS	asking, taking	board, reference
	 Explaining about the entry data, edit and descriptive statistical 	notes	book, and paper
	Giving examples as a study case and solving together		
CLOSING	 Discussion Giving description about 	Discuss, asking,	Computer, white board and paper
	matter on the next meeting	observing, taking notes	

: Giving problems to the students.

F. REFERENCE

1. Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang

- 2 Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 9 and 10

A. INSTRUCTIONAL AIM:

1. GENERAL

: After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can explain elementary

concepts inferences statistic, hypothesis test and also estimation.

B. SUBJECT

: Elementary concepts of inferences statistical

C. SUB SUBJECT

: Point and interval estimation, hypothesis test for mean

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	 Describing about matter at the 	Observing and	OHP, transparancy,
	nineth and tenth meeting	taking notes	white board,
	 Describing about general and 	_	reference book, and
	specific objectives competence		paper
	Explaining about the		1 1
	elememtary concept of		
	inferences statistical		
PRESENTATION	Explaining about the point and	Observing,	OHP, transparancy,
	interval estimation for mean	asking, taking	white board,
	and variance one sample and	notes	reference book, and
	two sample and hypothesis test		paper
	Giving examples as a study		
	case and solving together		
CLOSING	■ Discussion	Discuss,	white board and
	■ Giving description about	asking,	paper
	matter on the next meeting	observing,	-
	-	taking notes	

: Giving problems to the students.

F. REFERENCE

1. Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang

- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 11 and 12

A. INSTRUCTIONAL AIM:

1. GENERAL

: After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can goodness of fit some

distribution with the Kolmogorov Smirnov test.

B. SUBJECT

: The Kolmogorv Smirnov test

C. SUB SUBJECT

: Goodness of fit on Poisson distribution and normal distribution

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	 Describing about matter at the 	Observing and	OHP, transparancy,
	eleventh meeting	taking notes	white board,
	 Describing about general and 		reference book, and
	specific objectives competence		paper
	Explaining about the		
	kolmogorov smirnov		
	н		
PRESENTATION	Explaining about the goodness	Observing,	OHP, transparancy,
	of fit on poisson distribution	asking, taking	white board,
	and normal distribution	notes	reference book, and
	 Giving examples as a study 		paper
	case and solving together		
CLOSING	■ Discussion	Discuss,	white board and
	 Giving description about 	asking,	paper
	matter on the next meeting	observing,	
	Ü	taking notes	

: Giving problems to the students.

F. REFERENCE

- 1. Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang
- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 13

A. INSTRUCTIONAL AIM:

1. GENERAL

: After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its

because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can make simple linear

regression model.

B. SUBJECT

: Simple linear regression model.

C. SUB SUBJECT

: Simple linear regression model and Correlation

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	Describing about matter at the	Observing and	OHP, transparancy,
	threetenth meeting	taking notes	white board,
	 Describing about general and 		reference book, and
	specific objectives competence		paper
	 Explaining about the simple 		
	linear regression model		
;	,		
PRESENTATION	■ Explaining about the simple	Observing,	OHP, transparancy,
	regression linear model and	asking, taking	white board,
	correlation	notes	reference book, and
	■ Giving examples as a study	į	paper
	case and solving together		•
CLOSING	 Discussion 	Discuss,	white board and
	Giving description about	asking,	paper
	matter on the next meeting	observing,	1 ··r
	Ü	taking notes	

: Giving problems to the students.

F. REFERENCE

 Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang

- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
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COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 14

A. INSTRUCTIONAL AIM:

1. GENERAL

: After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its

because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can be analysis of variance

to know equality some population mean.

B. SUBJECT

: Analysis of variance

C. SUB SUBJECT

: One way to analysis of variance

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	 Describing about matter at the fourteenth meeting Describing about general and specific objectives competence Explaining about the analysis of variance 	Observing and taking notes	OHP, transparancy, white board, reference book, and paper
PRESENTATION	 Explaining about the one way to analysis of variance Giving examples as a study case and solving together 	Observing, asking, taking notes	OHP, transparancy, white board, reference book, and paper
CLOSING	 Discussion Giving description about matter on the next meeting 	Discuss, asking, observing, taking notes	white board and paper

: Giving problems to the students.

F. REFERENCE

1. Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang

- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
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COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 15

A. INSTRUCTIONAL AIM:

1. GENERAL

: After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can process data with SPSS

test mean test and variance.

B. SUBJECT

: Mean test to one population, two population and more than 2

population.

C. SUB SUBJECT

: Mean test and variance test to one population, two population and

more than 2 population.

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	■ Describing about matter at the	Observing and	OHP, transparancy,
	fifteenth meeting	taking notes	white board.
	 Describing about general and 		reference book, and
	specific objectives competence		paper
	Explaining about the mean test		
	to one population, two		
	populations and more than 2		
	population		
PRESENTATION	Explaining about the mean and	Observing,	OHP, transparancy,
	variance test to one population,	asking, taking	white board,
	two population and more than	notes	reference book, and
ļ	2 populations		paper
	 Giving examples as a study 		•
	case and solving together	1	
CLOSING	Discussion	Discuss,	white board and
	Giving description about	asking,	paper
	matter on the next meeting	observing,	
		taking notes	

E. ASSESSMENT : Giving problems to the students.

F. REFERENCE

- 1. Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang
- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

LEARNING PROGRAM OUTLINE

Course Title

: STATISTICAL METHOD I

Code / Credit

: PAS 101/3 credit

Course Description

: Statistical Methods I represent to study about descriptive statistical

and inferences statistical.

General Instructional Aim: After studying this course, the student are expected to be able to

explain concepts something of modern statistika along with its

because it is important the statistical model as base data analysis.

No.	Specific Instructional Aim	Subject	Sub Subject	Duration	Reference
1	After studying this course,	The meaning	■ Introduction	150	[1] 1-32
	the students are expected to	of statistical	 The meaning of 	minutes	_ =
	have ability explaining		statistical		[3] 1.1-1.32
	meaning of statistical and		Data process scale		
	also explain data, process		and measurement		
	scale and measurement				
2	After studying this course,	Descriptive	■ Frequencies	150	[1] 14 – 36
	the students can summarize	statistical	distribution	minutes	_
	data result of attempt in		Some properties of	Immates	[3] 2.1-2.44
	graph and table also can		expected value and		[4] 5-6
	calculated important value a		standart deviation		
	group of data.				
3	After studying this course,	Probability	The sample space	150	[1] 37-47
	the students can define	elements	and even	minutes	[1] 21 -4 1
	probability and do calculated		 An even probability 	minutes	[3] 3.1-3.39
	various probability		• The conditional		[4] 5 – 6
1			probability		
4	After studying this course,	Random	Random variable	150	[1] 37-47
	the student can explain result	variable and	and their	minutes	[1] 37-47
- 1	of quantitive attempt as	their	distribution	minutes	[2] 34-79
	random variable and its	distributions	Some properties of		[3] 4.1-4.41
	properties and also		expected value and		
1	calculated the expected value		variance		
	<u>,</u>		Some properties of		
			two random		
			variable		
L			variable		

5	After studying this course,	Special	■ Binomial	150	F13.40.54
	the can explain some	probability	distribution		[1] 48-54
	properties of probability	distribution		minutes	[2] 90-112
	distribution and also can	distribution	Poisson distribution		[3] 5.1-5.32
	chosen appropriate				[5] 51. 5.52
	probability model			İ	
6					
0	After studying this course,	Normal	 Normal distribution 	150	[1] 55-63
	the students can explain	distribution and	 Random sample 	minutes	[2] 120-138
	normal distribution and can	random			
	calculated probabilities as	variable			[3] 6.1-6.47
	wide of normal curve				
7	After studying this course,	Introduction to	Entry data	150	[4] 1-9
	the students can euse SSS	SPSS	■ Edut data	minutes	
	Program as one of the data		 Descreptive 		
	processing		statistical		
8	After studying this course,	Elementary	Point and interval	300	[1] 62-78
	the students can explain	concept of	estimatin	minutes	
	elementary concepts	inferences	Hypothesis test for		[2] 203-278
	inferences statistic,	statistical	mean		[3] 7.1-7.35
	hypothesis test and also				8.1-8.26
	estimation				
					9.1-9.40
					[4] 9
9	After studying this course,	The	 Goodness of fit on 	300	[1] 92-95
	students can goodness of fit	kolmogorov	Poisson distribution		- "
	some distribution with the	Smirnov test	Goodness of fit on	minutes	[2] 284-287
	Kolmogorov Smirnov test		Normal distribution		[4] 9
9	After studying this course,	Simple	Simple regression	150	1] 96-113
	the students can to make	regression	linear analysis	minutes	
	simple linear regression	-	Correlatin analysis	•	[2] 300-324
	model		, ,		[4] 10-11
10	After studying this course,	Analysis of	One way anova	150	[1] 123-129
-	the students can explain	variance	and the	minutes	
	analysis of variance to know			minucos	[2] 390-401
	equality some population				[4] 10
I	· F-F				
	mean			1	l

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References

- 1. Mustafid, 2003. Statistika Elementer metode dan aplikasi dengan SPSS. Jurusan Matematika FMIPA Undip, Semarang
- 2. Sembiring, R.K, Dr. 1986. Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan. Penerbit ITB Bandung
- 3. Soejoeti, Zanzawi. 2003. *Materi Pokok Metode Statistik I.* Penerbit Karunika Jakarta Universitas Terbuka, Edisi ke satu
- 4. Triastuti Wuryandari, Msi dan Hasbi Yasin, S.Si, 2005. *Petunjuk Praktikum Metode Statistik I.* Lab. Statistik jurusan Matematika FMIPA Undip semarang

COURSE TITLE

: STATISTICAL METHOD I

CODE / CREDIT

: PAS 101 / 3 CREDIT

DURATION

: 150 MINUTES

WEEK

: 13

A. INSTRUCTIONAL AIM:

1. GENERAL

: After studying this course, the student are expected to be able to explain concepts something of modern statistika along with its because it is important the statistical model as base data analysis

2. SPECIFIC

: After studying this course, the student can make simple linear

regression model.

B. SUBJECT

: Simple linear regression model.

C. SUB SUBJECT

: Simple linear regression model and Correlation

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	■ Describing about matter at the	Observing and	OHP, transparancy,
	threetenth meeting	taking notes	white board,
	 Describing about general and 		reference book, and
	specific objectives competence		paper
	 Explaining about the simple 		
	linear regression model		
PRESENTATION	Explaining about the simple	Observing,	OHP, transparancy,
	regression linear model and	asking, taking	white board,
	correlation	notes	reference book, and
A consumer	Giving examples as a study		paper
	case and solving together		
CLOSING	 Discussion 	Discuss,	white board and
	 Giving description about 	asking,	paper
ļ	matter on the next meeting	observing,	
		taking notes	