

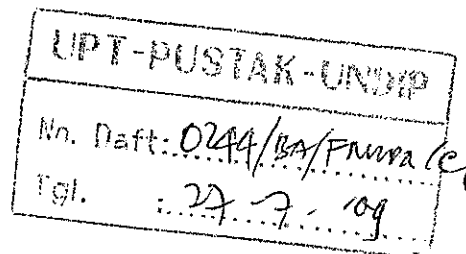
**STUDYING CONTRACT  
LEARNING PROGRAM OUTLINE  
LEARNING UNIT PROGRAM**

**TECHNIQUE OF DEMOGRAPHY**

**COURSE CODE: PAM 428**

**3 SCU**

**SEMESTER VI**



**MATHEMATICS STUDY PROGRAM  
MATHEMATICS AND NATURAL SCIENCES FACULTY  
DIPONEGORO UNIVERSITY  
SEMARANG**

## TEACHING-LEARNING CONTRACT

**Course Title** : **Technique of Demografi**  
**Code** : **PAM 428**  
**Credit** : **3 SKS**  
**Semester** : **VI**

### 1. Course Advantage

Technique of Demografi represent science which in it study population process and structure in a region, where changeable population structure which because of Technique of Demografi process that is fertility, migration and mortality. Besides population structure determined also by other factor for example marriage, divorce. Change of structure in number and also composition will give social influence, economics and political to population who live in a region have role which important enough in everyday. To that's this course given so that student can know about the problem of Technique of Demografi

### 2. Course Description

Technique of Demografi this represent studying the way of obtaining the source of data of Technique of Demografi, way of counting criteria which is used in Technique of Demografi of is including in it make population pyramid, studying process change of population structure, that is fertility, migration and mortality, way of making population projection and also the problem of labor, population mobility

### 3. General Instructional Aim

After studying this course of Technique of Demografi, the student expected to be able to know and explain the source of data of Technique of Demografi, making population pyramid, counting criteria of Technique of Demografi data, fertility rate, mortality rate, making population projection, knowing the problem of labor and also population mobility

#### 4. Lecture Strategic

This lecturing uses discourse accompanied with lab work. Every student expected to earn active to ask concepts or things which still not yet been comprehended and or submit good 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

- Coale Ansley J. dan Paul Demeny. 1986. *Regional Model Life Table and Stable Population*. Princeton University, Press
- Ida Bagus Mantra. 1985. *Pengantar Studi Demografi*. Penerbit Nur Cahaya, Yogyakarta
- Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar
- Kartomo W. 1980. *Dasar-Dasar Demografi*. Penerbit Lembaga Demografi, Fakultas Ekonomi, UI Jakarta
- Pollard dan Yusuf, F. 1989. *Teknik Demografi*. Diterjemahkan oleh Rozy Munir dan Budiarto, Bina Aksara, Jakarta

#### 6. Scoring Criteria

Criteria of scoring in this course is :

Assess	Point
A	4
AB	3,5
B	3
BC	2,5
C	2
CD	1,5
D	1
E	0

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

Quiz	10 %
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Task	15 %
Midterm	30 %
Final exam	30 %
Lab Work	15 %

### 7. Lecture Schedule

Week	Topik Bahasan	Reading
1	Source of Technique of Demografi	Ida Bagus [3] Pollard
2	Composition of Population and Criteria of Technique of Demografi Data	Ida Bagus [3] Pollard
3	Mortality Table	Ansley Ida Bagus [3] Pollard
4	Quiz I Fertility	Ida Bagus [3] Pollard
5	Mortality	Ida Bagus [3] Pollard
6	Source of Population Projection Data	Ida Bagus [3] Pollard
7	Population Projection	Ansley Ida Bagus [3] Pollard
8	Midterm	
9	Population Mobility Quiz II	Ida Bagus [2] Ida Bagus [3] Kartomo W
10	Lab Work I : Fertility and Mortality	
11	Wisdom of Redistribution Population of Indonesia and Delivery of Labor	Ida Bagus [2] Ida Bagus [3]

	( TKI) out Country	Kartomo W
12	Lab Work II : Population Projection	
13	Labor	Ida Bagus [2] Ida Bagus [3] Kartomo W
14	Lab Work III : Labor	
15	Quiz III Wisdom of Technique of Demografi	Kartomo W
16	Final Exam	

## LEARNING PROGRAM OUTLINE

- Course Title : Technique of Demografi
- Code / Credit : PAM 428 / 3 SKS
- Course Description : Technique of Demografi this represent studying problem of Technique of Demografi, that is fertility, mortality, migration, population projection, labor and also population mobility
- General Instructional Aim : After studying this course of Technique of Demografi, the student expected to be able know and explain the source of data of Technique of Demografi, making population pyramid, counting criteria of Technique of Demografi data, fertility rate, mortality rate, making population projection, knowing the problem of labor and also population mobility

No.	Special Instructional Aim	Subject	Sub Subject	Duration	References
1.	After studying this course student are expected to have ability to know and explain the source of Technique of Demografi data, composition of population, making population pyramid and also the way of counting and meaning of criteria of Technique of Demografi data	Source and Measure of Data of Technique of Demografi	<ul style="list-style-type: none"> <li>▪ Source of Technique of Demografi Data</li> <li>▪ Composition of Population</li> <li>▪ Source of Technique of Demografi Data</li> </ul>	300 minutes	[3] [5]
2.	After studying this course student are expected to have ability to explain meaning of symbol from mortality table and also make the brief and complete mortality table	Mortality Table	<ul style="list-style-type: none"> <li>▪ Mortality Table</li> </ul>	150 minutes	[1] [3] [5]

3.	After studying this course student are expected to have ability to explain and count kinds of fertility rate and mortality rate and also fertility and mortality standardization	Fertility and Mortality	<ul style="list-style-type: none"> <li>▪ Fertility</li> <li>▪ Mortality</li> </ul>	450 minutes	[3] [5]
4.	After studying this course student are expected to have ability to make population projection.	Population Projection	<ul style="list-style-type: none"> <li>▪ Population Projection</li> </ul>	450 minutes	[1] [3]
5.	After studying this course student are expected to have ability to explain concept of population mobility : vertical (change of status) and is horizontal (Geographical MP) : permanent and nonpermanent	Population Mobility	<ul style="list-style-type: none"> <li>▪ Scope</li> <li>▪ Source and Analysis Data</li> </ul>	300 minutes	[2] [3] [4]
6.	After studying this course student are expected to have ability to explain wisdom of redistribution population and delivery of labor ( TKI) out Country	Wisdom of Redistribution Population of Indonesia and Delivery of Labor ( TKI) out Country	<ul style="list-style-type: none"> <li>▪ Program of Redistribution</li> <li>▪ Expectation and of Reality Reorientation Development Of Area</li> <li>▪ Delivery Of TKI</li> </ul>	150 minutes	[3] [4]
7.	After studying this course student are expected to have ability to explain definition and concept of labor	Labor	<ul style="list-style-type: none"> <li>▪ Population Of Age Activity</li> <li>▪ Labor Force Fundamental Norm of Labor</li> <li>▪ Unemployment Rate</li> </ul>	300 minutes	[2] [3] [4]

8.	After studying this course student are expected to have ability to explain wisdom concept of Technique of Demografi.	Wisdom of Technique of Demografi	<ul style="list-style-type: none"> <li>▪ Wisdom Scope of Technique of Demografi</li> <li>▪ Kinds of Wisdom of Technique of Demografi</li> </ul>	150 minutes	[4]
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Reference:

1. Coale Ansley J. dan Paul Demeny. 1986. *Regional Model Life Table and Stable Population*. Princeton University, Press
2. Ida Bagus Mantra. 1985. *Pengantar Studi Demografi*. Penerbit Nur Cahaya, Yogyakarta
3. Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar
4. Kartomo W. 1980. *Dasar-Dasar Demografi*. Penerbit Lembaga Demografi, Fakultas Ekonomi, UI Jakarta
5. Pollard dan Yusuf, F. 1989. *Teknik Demografi*. Diterjemahkan oleh Rozy Munir dan Budiarto, Bina Aksara, Jakarta



## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi  
 CODE / CREDIT : PAM 428 / 3 SKS  
 DURATION : 150 minutes  
 WEEK : 1

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this course student are expected to have ability to know and explain the source of Technique of Demografi data, composition of population, making population pyramid and also the way of counting and meaning of criteria of Technique of Demografi data
2. SPECIFIC : After studying this course student are expected to have ability to know and explain the source of data of Technique of Demografi

B. SUBJECT : Source and Measure of Technique of Demografi Data

C. SUB SUBJECT : Source of Technique of Demografi Data

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Describing about matter at the first meeting</li> <li>▪ Explaining purpose of Technique of Demografi</li> <li>▪ Describing about general and specific competence</li> </ul>	Observing	OHP, transparency
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining about way to obtained data Technique of Demografi</li> </ul>	Observing, asking, taking notes, discuss	OHP, transparency, white board
CLOSING	<ul style="list-style-type: none"> <li>▪ Giving comment of discuss</li> <li>▪ Giving description about</li> </ul>	Discuss Observing	White board Paper

	matter on the next meeting		
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E. ASSESSMENT : Giving problems to the students

F. REFERENCE : Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar  
Pollard dan Yusuf, F. 1989. *Teknik Demografi*.  
Diterjemahkan oleh Rozy Munir dan Budiarto, Bina Aksara, Jakarta

## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi

CODE / CREDIT : PAM 428 / 3 SKS

DURATION : 150 minutes

WEEK : 2

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this course student are expected to have ability to know and explain the source of Technique of Demografi data, composition of population, making population pyramid and also the way of counting and meaning of criteria of Technique of Demografi data

2. SPECIFIC : After studying this course student are expected to have ability to know and explain composition of population, making population pyramid and also the way of counting and meaning of criteria of Technique of Demografi data

B. SUBJECT : Source and Measure of Technique of Demografi Data

C. SUB SUBJECT : Composition of Population and Source of Technique of Demografi

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"><li>▪ Describing about matter at the second meeting</li><li>▪ Explaining purpose of measure of Technique of Demografi data</li></ul>	Observing	OHP, transparency
PRESENTATION	<ul style="list-style-type: none"><li>▪ Explaining about measures of Technique of Demografi data and making population</li></ul>	Observing, asking, taking notes	OHP, transparency, white board

	pyramid ▪ Giving examples  ▪ Giving similar practice and show student to finish	Observing, asking, taking notes Active do	White board  White board, paper
CLOSING	▪ Giving comment of work of student ▪ Giving problems ▪ Giving description about matter on the next meeting	Discuss  Taking notes Observing	White board  Paper

E. ASSESSMENT : Giving problems to the students

F. REFERENCE : Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar  
 Pollard dan Yusuf, F. 1989. *Teknik Demografi*. Diterjemahkan oleh Rozy Munir dan Budiarto, Bina Aksara, Jakarta

## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi  
 CODE / CREDIT : PAM 428 / 3 SKS  
 DURATION : 150 minutes  
 WEEK : 3

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this course student are expected to have ability to explain meaning of symbol from mortality table and also make the brief and complete mortality table
2. SPECIFIC : After studying this course student are expected to have ability to explain meaning of symbol from mortality table and also make the mortality table

B. SUBJECT : Mortality Table

C. SUB SUBJECT : Mortality Table

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Describing about matter at the third meeting</li> <li>▪ Explaining kinds of mortality table</li> </ul>	Observing	OHP, transparency
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining about meaning symbol from mortality table and to make the brief and complete mortality table</li> <li>▪ Giving examples</li> <li>▪ Giving similar practice and show student to finish</li> </ul>	Observing, asking, taking notes  Observing, asking, taking notes  Active do	OHP, transparency, white board  White board  White board, paper
CLOSING	<ul style="list-style-type: none"> <li>▪ Giving comment of work of</li> </ul>	Discuss	White board

	student ▪ Giving problems ▪ Giving description about matter on the next meeting	Taking notes Observing	Paper
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E. ASSESSMENT : Giving problems to the students

F. REFERENCE : Coale Ansley J. dan Paul Demeny. 1986. *Regional Model Life Table and Stable Population*. Princeton University, Press

Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar

Pollard dan Yusuf, F. 1989. *Teknik Demografi*. Diterjemahkan oleh Rozy Munir dan Budiarto, Bina Aksara, Jakarta

## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi  
 CODE / CREDIT : PAM 428 / 3 SKS  
 DURATION : 150 minutes  
 WEEK : 4

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this course student are expected to have ability to explain and count kinds of fertility rate and mortality rate and also fertility and mortality standardization
2. SPECIFIC : After studying this course student are expected to have ability to explain and count kinds of fertility rate and fertility standardization

B. SUBJECT : Fertility and Mortality

C. SUB SUBJECT : Fertility

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Giving quiz</li> <li>▪ Describing about matter at the fourth meeting</li> <li>▪ Explaining kinds of fertility rate</li> </ul>	<ul style="list-style-type: none"> <li>Active do</li> <li>Observing</li> </ul>	<ul style="list-style-type: none"> <li>Paper</li> <li>OHP, transparency</li> </ul>
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining the meaning of fertility rate and way of counting fertility rate</li> <li>▪ Giving examples</li> <li>▪ Giving similar practice and show student to finish</li> </ul>	<ul style="list-style-type: none"> <li>Observing, asking, taking notes</li> <li>Observing, asking, taking notes</li> <li>Active do</li> </ul>	<ul style="list-style-type: none"> <li>OHP, transparency, white board</li> <li>White board</li> <li>White board, paper</li> </ul>
CLOSING	<ul style="list-style-type: none"> <li>▪ Giving comment of work of</li> </ul>	<ul style="list-style-type: none"> <li>Discuss</li> </ul>	<ul style="list-style-type: none"> <li>White board</li> </ul>

	student ▪ Giving problems ▪ Giving description about matter on the next meeting	Taking notes Observing	Paper
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E. ASSESSMENT : Giving problems to the students

F. REFERENCE : Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar  
 Pollard dan Yusuf, F. 1989. *Teknik Demografi*. Diterjemahkan oleh Rozy Munir dan Budiarto, Bina Aksara, Jakarta



## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi  
 CODE / CREDIT : PAM 428 / 3 SKS  
 DURATION : 150 minutes  
 WEEK : 5

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this course student are expected to have ability to explain and count kinds of fertility rate and mortality rate and also fertility and mortality standardization
2. SPECIFIC : After studying this course student are expected to have ability to explain and count kinds of mortality rate and mortality standardization

B. SUBJECT : Fertility and Mortality

C. SUB SUBJECT : Mortality

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Describing about matter at the fifth meeting</li> <li>▪ Explaining kinds of mortality rate</li> </ul>	Observing	OHP, transparency
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining the meaning of mortality rate and way of counting mortality rate</li> <li>▪ Giving examples</li> <li>▪ Giving similar practice and show student to finish</li> </ul>	Observing, asking, taking notes Observing, asking, taking notes Active do	OHP, transparency, white board White board White board, paper
CLOSING	<ul style="list-style-type: none"> <li>▪ Giving comment of work of student</li> </ul>	Discuss	White board

	<ul style="list-style-type: none"> <li>▪ Giving problems</li> <li>▪ Giving description about matter on the next meeting</li> </ul>	Taking notes Observing	Paper
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E. ASSESSMENT : Giving problems to the students

F. REFERENCE : Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar  
 Pollard dan Yusuf, F. 1989. *Teknik Demografi*. Diterjemahkan oleh Rozy Munir dan Budiarto, Bina Aksara, Jakarta

## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi  
 CODE / CREDIT : PAM 428 / 3 SKS  
 DURATION : 150 minutes x 2  
 WEEK : 6 and 7

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this course student are expected to have ability to make population projection
2. SPECIFIC : After studying this course student are expected to have ability to make population projection

B. SUBJECT : Population Projection

C. SUB SUBJECT : Population Projection

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Describing about matter at the sixth and seventh meeting</li> <li>▪ Explaining the meaning of population projection</li> <li>▪ Explaining purpose of population projection</li> </ul>	Observing	OHP, transparency
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining about data for to make population projection and to counting it is</li> <li>▪ Explaining way of make population projection</li> <li>▪ Giving examples</li> <li>▪ Giving similar practice and show student to finish</li> </ul>	Observing, asking, taking notes  Observing, asking, taking notes  Observing, asking, taking notes  Active do	OHP, transparency, white board  White board  White board  White board, paper
CLOSING	<ul style="list-style-type: none"> <li>▪ Giving comment of work of</li> </ul>	Discuss	White board

	student ▪ Giving problems ▪ Giving quiz ▪ Giving task ▪ Giving description about matter to be tested at midterm	Taking notes Active do Taking notes Observing	Paper Paper Paper
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E. ASSESSMENT

: Giving problems to the students

F. REFERENCE

: Coale Ansley J. dan Paul Demeny. 1986. *Regional Model Life Table and Stable Population*. Princeton University, Press

Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar

Pollard dan Yusuf, F. 1989. *Teknik Demografi*. Diterjemahkan oleh Rozy Munir dan Budiarto, Bina Aksara, Jakarta

## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi  
 CODE / CREDIT : PAM 428 / 3 SKS  
 DURATION : 150 minutes  
 WEEK : 9

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this course student are expected to have ability to explain concept of population mobility : vertical (change of status) and is horizontal (Geographical MP) : permanent and nonpermanent
2. SPECIFIC : After studying this course student are expected to have ability to differentiate MP vertical and MP horizontal to analysis

B. SUBJECT : Population Mobility  
 C. SUB SUBJECT : Scope and Analysis Data

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Describing about matter at the 9 meeting</li> <li>▪ Explaining scope of population mobility</li> </ul>	Observing	OHP, transparency
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining scope of population mobility and analysis</li> <li>▪ Giving examples</li> <li>▪ Giving similar practice and show student to finish</li> </ul>	Observing, asking, taking notes Observing, asking, taking notes Active do	OHP, transparency, white board White board White board, paper
CLOSING	<ul style="list-style-type: none"> <li>▪ Giving comment of work of</li> </ul>	Discuss	White board

	student <ul style="list-style-type: none"> <li>▪ Giving problems</li> <li>▪ Giving description about matter on the next meeting</li> </ul>	Taking notes Observing	Paper
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E. ASSESSMENT : Giving problems to the students

F. REFERENCE : Ida Bagus Mantra. 1985. *Pengantar Studi Demografi*. Penerbit Nur Cahaya, Yogyakarta  
 Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar  
 Kartomo W. 1980. *Dasar-Dasar Demografi*. Penerbit Lembaga Demografi, Fakultas Ekonomi, UI Jakarta

## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi  
 CODE / CREDIT : PAM 428 / 3 SKS  
 DURATION : 150 minutes  
 WEEK : 10

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this lab work student are expected to have ability to count fertility rate, mortality rate, unemployment rate and make population projection by using Microsoft Excel
2. SPECIFIC : After studying this lab work student are expected to have ability to count fertility rate and mortality rate by using Microsoft Excel

B. SUBJECT : Lab Work Fertility and Mortality

C. SUB SUBJECT : Lab Work Fertility and Mortality

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Describing about matter at the 10 meeting</li> </ul>	Observing	OHP, transparency
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining using Microsoft Excel to count fertility rate and mortality rate</li> <li>▪ Giving examples</li> <li>▪ Giving similar practice</li> </ul>	Observing, asking, taking notes Observing, asking Active do	Computer Computer Computer
CLOSING	<ul style="list-style-type: none"> <li>▪ Giving task</li> <li>▪ Giving description about matter on the next meeting</li> </ul>	Taking notes Observing	Paper

E. ASSESSMENT : Giving problems to the students

## F. REFERENCE

- : Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar
- Pollard dan Yusuf, F. 1989. *Teknik Demografi*. Diterjemahkan oleh Rozy Munir dan Budiarto, Bina Aksara, Jakarta
- Tim Pengampu, 2005. *Modul Praktikum Statistika Kependudukan*. Jurusan Matematika FMIPA UNDIP, Semarang



## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi  
 CODE / CREDIT : PAM 428 / 3 SKS  
 DURATION : 150 minutes  
 WEEK : 11

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this course student are expected to have ability to explain wisdom of redistribution population and delivery of labor ( TKI) out Country
2. SPECIFIC : After studying this course student are expected to have ability development of redistribution population program

B. SUBJECT : Wisdom of Redistribution Population of Indonesia and Delivery of Labor ( TKI) out Country

C. SUB SUBJECT : Program of Redistribution, Expectation and of Reality Reorientation Development Of Area and Delivery Of TKI

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Describing about matter at the 11 meeting</li> </ul>	Observing	OHP, transparency
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining scope of wisdom of redistribution population and delivery of labor ( TKI) out Country</li> <li>▪ Giving motivation for student to look for examples and discuss</li> </ul>	Observing, asking, taking notes  Discuss	OHP, transparency, white board  White board, paper
CLOSING	<ul style="list-style-type: none"> <li>▪ Giving comment of work of student</li> <li>▪ Giving problems</li> </ul>	Discuss  Taking notes	White board  Paper

	▪ Giving description about matter on the next meeting	Observing	
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E. ASSESSMENT

: Giving problems to the students

F. REFERENCE

: Ida Bagus Mantra. 1985. *Pengantar Studi Demografi*. Penerbit Nur Cahaya, Yogyakarta  
 Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar  
 Kartomo W. 1980. *Dasar-Dasar Demografi*. Penerbit Lembaga Demografi, Fakultas Ekonomi, UI Jakarta

## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi  
 CODE / CREDIT : PAM 428 / 3 SKS  
 DURATION : 150 minutes  
 WEEK : 12

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this lab work student are expected to have ability to count fertility rate, mortality rate, unemployment rate and make population projection by using Microsoft Excel
2. SPECIFIC : After studying this lab work student are expected to have ability to make population projection by using Microsoft Excel

B. SUBJECT : Lab Work Population Projection

C. SUB SUBJECT : Lab Work Population Projection

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Describing about matter at the 12 meeting</li> </ul>	Observing	OHP, transparency
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining using Microsoft Excel to make population projection</li> <li>▪ Giving examples</li> <li>▪ Giving similar practice</li> </ul>	Observing, asking, taking notes  Observing, asking  Active do	Computer  Computer  Computer
CLOSING	<ul style="list-style-type: none"> <li>▪ Giving task</li> <li>▪ Giving description about matter on the next meeting</li> </ul>	Taking notes  Observing	Paper

E. ASSESSMENT : Giving problems to the students

F. REFERENCE

- : Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar
- Pollard dan Yusuf, F. 1989. *Teknik Demografi*. Diterjemahkan oleh Rozy Munir dan Budiarto, Bina Aksara, Jakarta
- Tim Pengampu, 2005. *Modul Praktikum Statistika Kependudukan*. Jurusan Matematika FMIPA UNDIP, Semarang

## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi  
 CODE / CREDIT : PAM 428 / 3 SKS  
 DURATION : 150 minutes  
 WEEK : 13

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this course student are expected to have ability to explain definition and concept of labor
2. SPECIFIC : After studying this course student are expected to have ability to count labor force fundamental norm

B. SUBJECT : Labor

C. SUB SUBJECT : Population of Age Activity, Labor Force Fundamental Norm of Labor and Unemployment Rate

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Describing about matter at the 13 meeting</li> <li>▪ Explaining definition and concept of labor</li> </ul>	Observing	OHP, transparency
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining scope of population of age activity, labor force fundamental norm of labor and unemployment rate</li> <li>▪ Giving examples</li> <li>▪ Giving motivation for student to look for examples and discuss</li> </ul>	Observing, asking, taking notes  Observing, asking  Discuss	OHP, transparency, white board  White board, paper  White board, paper

CLOSING	▪ Giving comment of work of student	Discuss	White board
	▪ Giving problems	Taking notes	Paper
	▪ Giving description about matter on the next meeting	Observing	

E. ASSESSMENT : Giving problems to the students

F. REFERENCE : Ida Bagus Mantra. 1985. *Pengantar Studi Demografi*. Penerbit Nur Cahaya, Yogyakarta  
 Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar  
 Kartomo W. 1980. *Dasar-Dasar Demografi*. Penerbit Lembaga Demografi, Fakultas Ekonomi, UI Jakarta

## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi  
 CODE / CREDIT : PAM 428 / 3 SKS  
 DURATION : 150 minutes  
 WEEK : 14

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this lab work student are expected to have ability to count fertility rate, mortality rate, unemployment rate and make population projection by using Microsoft Excel
2. SPECIFIC : After studying this lab work student are expected to have ability to count unemployment rate by using Microsoft Excel

B. SUBJECT : Lab Work Labor

C. SUB SUBJECT : Lab Work Labor

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Describing about matter at the 14 meeting</li> </ul>	Observing	OHP, transparency
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining using Microsoft Excel to count unemployment rate</li> </ul>	Observing, asking, taking notes	Computer
	<ul style="list-style-type: none"> <li>▪ Giving examples</li> </ul>	Observing, asking	Computer
	<ul style="list-style-type: none"> <li>▪ Giving similar practice</li> </ul>	Active do	Computer
CLOSING	<ul style="list-style-type: none"> <li>▪ Giving task</li> </ul>	Taking notes	Paper

E. ASSESSMENT : Giving problems to the students

F. REFERENCE : Coale Ansley J. dan Paul Demeny. 1986. *Regional Model Life Table and Stable Population*. Princeton University, Press

Ida Bagus Mantra. 2000. *Demografi Umum, edisi ke-2*. Penerbit Pustaka Pelajar

Pollard dan Yusuf, F. 1989. *Teknik Demografi*. Diterjemahkan oleh Rozy Munir dan Budiarto, Bina Aksara, Jakarta

Tim Pengampu, 2005. *Modul Praktikum Statistika Kependudukan*. Jurusan Matematika FMIPA UNDIP, Semarang



## LEARNING UNIT PROGRAM

COURSE TITLE : Technique of Demografi

CODE / CREDIT : PAM 428 / 3 SKS

DURATION : 150 minutes

WEEK : 15

### A. INSTRUCTIONAL AIM

1. GENERAL : After studying this course student are expected to have ability to explain wisdom concept of Technique of Demografi

2. SPECIFIC : After studying this course student are expected to have ability development wisdom concept of Technique of Demografi

B. SUBJECT : Wisdom of Technique of Demografi

C. SUB SUBJECT : Wisdom Scope of Technique of Demografi and Kinds of Wisdom of Technique of Demografi

### D. TEACHING-LEARNING ACTIVITIES

STAGE	LECTURER ACTIVITIES	STUDENT ACTIVITIES	LEARNING MEDIA
INTRODUCTION	<ul style="list-style-type: none"> <li>▪ Giving quiz</li> <li>▪ Describing about matter at the 15 meeting</li> </ul>	<ul style="list-style-type: none"> <li>Active do</li> <li>Observing</li> </ul>	<ul style="list-style-type: none"> <li>Paper</li> <li>OHP, transparency</li> </ul>
PRESENTATION	<ul style="list-style-type: none"> <li>▪ Explaining scope and kinds of wisdom concept of Technique of Demografi</li> <li>▪ Giving motivation for student to look for examples and discuss</li> </ul>	<ul style="list-style-type: none"> <li>Observing, asking, taking notes</li> <li>Discuss</li> </ul>	<ul style="list-style-type: none"> <li>OHP, transparency, white board</li> <li>White board, paper</li> </ul>
CLOSING	<ul style="list-style-type: none"> <li>▪ Giving comment of work of student</li> <li>▪ Giving problems</li> <li>▪ Giving task</li> </ul>	<ul style="list-style-type: none"> <li>Discuss</li> <li>Taking notes</li> <li>Taking notes</li> </ul>	<ul style="list-style-type: none"> <li>White board</li> <li>Paper</li> <li>Paper</li> </ul>

	▪ Giving description about matter to be tested at final exam	Observing	
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E. ASSESSMENT : Giving problems to the students

F. REFERENCE : Ida Bagus Mantra. 1985. *Pengantar Studi Demografi*. Penerbit Nur Cahaya, Yogyakarta  
Kartomo W. 1980. *Dasar-Dasar Demografi*. Penerbit Lembaga Demografi, Fakultas Ekonomi, UI Jakarta