



**INSTITUT TEKNOLOGI SEPULUH NOPEMBER
FACULTY OF SCIENCE AND DATA ANALYTICS
DEPARTMENT OF STATISTICS
STATISTICS UNDERGRADUATE PROGRAM**

Course	Course Name	: Population Studies
	Course Code	: SS234750
	Credit	: 3 SKS
	Semester	: VII

COURSE DESCRIPTION

Population Studies is one of the expertise courses that are part of the field of study in the Population and Social Statistics Course Clusters. The purpose of studying Population Studies is that students are able to know the concept of demography and / or population studies, sources of demographic data, introduction to population theory, demographic transition theory, some basic measures of Demography, Mortality and Fertility, Death Tables, Application of Death Tables, population mobility, employment, and quality. population, as well as analyzing population problems using statistical methods (simple). Through this course, it is hoped that students will have a learning experience to think critically and be able to make correct decisions about solutions to population problems using statistical methods. The learning strategies used are lectures, discussions, practice questions, problem based learning, and assignments.

PROGRAM LEARNING OUTCOME

- PLO-4 Able to apply science and mathematics to support the understanding of statistical methods.
- PLO-9 Able to apply statistical methods to analyze theoretical and real problems
- PLO-10 Able to apply business, industrial, economic, social, health or environmental statistical methods to real problems

COURSE LEARNING OUTCOME

- CLO.1 Students understand the scope of demographics, population studies, sources of demographic data, and recognize population problems.
- CLO.2 Students know population theory and demographic transition theory and population dynamics.
- CLO.3 Students understand some of the basic measures of Demography, Mortality and Fertility, Death Tables, Application of Death Tables, Population Mobility, Employment, and population quality, both in the concept and utilization of population data.
- CLO.4 Students are able to express ideas or ideas in solving population problems using statistical methods orally and in writing well.
- CLO.6 Have knowledge of current and future issues related to the population sector
- CLO.7 Able to communicate effectively and work together in interdisciplinary and multidisciplinary teams
- CLO.8 Have professional responsibilities and ethics
- CLO.9 Able to motivate yourself to think creatively and learn throughout life

MAIN SUBJECT

1. Definition and scope of demographics

2. Concept of demography and population studies
3. Demographic sources
4. Identify crucial population problems
5. Basic population theory
6. Concept of population dynamics
7. Definition of demographic transition
8. The basic measures of Demography, Mortality and Fertility and the use of data
9. Concept of the Death Tables and their applications
10. Basic measures of mobility and employment
11. Concepts and indicators of family planning, population quality, poverty
12. Statistical method techniques on Population Studies problems

PREREQUISITE

Introduction to Time Series Analysis, Regression Analysis

REFERENCES

1. Adioetomo, S.M. dan Samosir, O.B., 2010. Dasar-Dasar Demografi. Jakarta: Lembaga Demografi Fakultas Ekonomi UI.
2. Alho, M.J. and Spencer, B.D. 2005. Statistical Demography and Forecasting. Springer Series in Statistics (e_book).
3. Coldwell, J.C., 2006. Demographic Transition Theory. Springer Netherlands (e_book)
4. Mantra, I.B., 2010. Pengantar Studi Demografi. Yogyakarta: Nur Cahaya.