

COURSE OUTLINE

Course Code / Title : HA2024 Statistical Analysis for Public Affairs I

Pre-requisites : HA1003

No. of AUs. : 3

Contact Hours : 39

Course Aims

This course basically aims to advance the understanding of your analytical methods by training them in the basic concepts of descriptive and inferential statistics and by using those concepts through a hands-on approach. As a modern administrator, an insightful policy analyst or a good researcher, you must learn to become an intelligent consumer and producer of empirical research as applied to public administration and policy. Based on data-based exercises and practices, this course will help you understand quantitative journal articles that use statistics as a written language for communication.

Intended Learning Outcomes (ILO)

By the end of this course, you (as a student) would be able to:

1. Describe the key statistical concepts for quantitative data analysis in social sciences.
2. Apply various statistical techniques for public policy and management analysis.
3. Evaluate empirical results using statistical analysis approaches.
4. Use of software such as Microsoft Excel or SPSS for statistical analysis.

Course Content

This course is organized as follows:

- (1) Why program evaluation and data analysis matter for public administration and policy,
- (2) Data management with software program,
- (3) Univariate statistics: Averages, central tendency, frequency distribution and charts,
- (4) Bivariate statistics I: Hypothesis testing with Chi-square,
- (5) Bivariate statistics II: T-test and index variable construction,
- (6) Mean Comparison with ANOVA,
- (7) Correlation analysis,
- (8) Simple and Multiple linear regression,
- (9) Logistic regression,
- (10) Reporting inferential analysis results.

Course Assessment

Class Participation : 10%

In-class Mid-term Test : 25%

Data-based Exercises : 15%

Final Exam : 50%

Total -----
100%