

# THE NINTH IN-SERVICE TRAINING SESSION

The Statistical Center of the University of the Philippines began its Ninth In-Service Training Session on February 17th, to last until March 28, 1958.

Personnel from the Institutional Members of the Philippine Statistical Association, and the Department of Finance enrolled in the courses of study. These were:

## I. *Philippine Statistical Association*

### A. Department of Economic Research, Central Bank

1. Anastacio M. Bengco
2. Virgilio B. Buendia
3. Bernardo M. Campos
4. Domingo R. Consunji
5. Virgilio P. Felizardo
6. Manuel C. Naranjilla
7. Ruben J. Reyes
8. Arturo A. Tejada
9. Ricardo S. Villa

### B. Standard Vacuum Oil Company

1. Jovenal C. Malonzo
2. Jesus V. Non
3. Juanito G. Nepomuceno
4. Rogel C. Rufino, Jr.

### C. IL-FGU Insurance Group

1. Tristan P. Allas
2. Manuel G. Chuidian
3. Rodolfo S. Duñgan
4. Concepcion Mapa

### D. Elizalde & Co., Inc.

1. Tomas D. Bagatsing

### E. Government Service Insurance System

1. Nicanor S. Iscala
2. Mauro B. Torralba
3. Leansing A. Yap

### F. Philippine Manufacturing Company

1. Alfredo C. Antonio

### G. Pampanga Sugar Development Co.

1. Vicente Pineda

## II. *Department of Finance*

### A. Office of the Secretary

1. Francisco G. Casas
2. Bayani F. Difuntorum
3. Bonifacio Lomotan

### B. Bureau of Internal Revenue

1. Horacio J. Cruz
2. Eriberto B. Roxas

### C. Bureau of Customs

1. Felix M. Narito
2. Dominador A. Layosa
3. Conrado S. Bonifacio

The Program and Outline of the courses are as follows:

PROGRAM

<i>Date</i>	<i>Subject Matter</i>	<i>Instructional Staff</i>
February 17-21	Opening Ceremonies Introduction: Definition, Importance, Scope, and Types of Statistics Sources of Published Statistics	Prof. W. F. Ryan & Prof. H. F. Smith
February 24-25	Statistical Services in the Philippines	Mr. B. G. Bantegui
February 26-28, March 3-5	Production of Statistics Characteristics of Populations	Miss M. B. Concepcion & Miss A. R. Buenaventura
March 6-7, 10-14, 17	Statistical Series Index Numbers	Prof. R. R. Oswald Miss P. B. Culabutan Miss J. Jones Miss E. Adams
March 18-21, 24	Estimation Errors and Bias	Dr. K. C. S. Pillai
March 25-27	Statistical Administration	Dr. A. M. Dalisay & Prof. W. F. Ryan
March 28	Examination	

# O U T L I N E

The objectives sought in this training are:

1. Appraisal of the quality and scope of existing data.
2. Indication of the principal gaps in the work of the agencies and the measures necessary to fill them
3. Fostering continuous advance towards a coherent statistical system to meet the needs of national and scientific progress.

## I. Introduction

- A. Definition of Statistics
- B. Importance in Government and Private Enterprise
  1. Economic and Business Indicators
  2. Management Analysis
  3. Policy Formulation
- C. Scope
  1. Empirical vs. Experimental Data
  2. Design of Experiments
- D. Types
  1. Benchmark
  2. Current
  3. Special Purpose Surveys

## II. Sources of Published Statistics

- A. Primary and Secondary Sources
- B. Official Publications of the Government
- C. Research of Private Enterprises
- D. Commercial Sources
- E. World Sources

### III. Statistical Services in the Philippines

- A. Producing Agency
  - 1. Major Statistical Agencies
  - 2. Administrative Agencies
- B. Analytic and Research Agencies
- C. Central Coordinating Agency
  - 1. Historical Development
  - 2. Role and Activities

### IV. Production of Statistics

- A. Raw Data
  - 1. Forms and Questionnaires
  - 2. Reports of Field Staff
- B. Processing and Tabulation
  - 1. Role of IBM in Data Processing  
(Trip to IBM Offices)
  - 2. Other Equipment

### V. Characteristics of Populations

- A. Frequency Distribution
  - 1. Types of Variables
    - a. Continuous
    - b. Discrete
  - 2. Frequency Curves
- B. Measures of Summarization and Comparison
  - 1. Population, Parameters, and Statistics
  - 2. Averages
  - 3. Variability
  - 4. Skewness

## VI. Statistical Series

- A. Prices  
(Trip to Central Bank)
- B. Industrial Production
- C. National Income
- D. Others

## VII. Index Numbers

- A. Definition
- B. Choice of Base, Items, and Indicators
- C. Types
- D. Modifications

## VIII. Estimation

- A. Use in:
  - 1. Forecasting
  - 2. Completing Data
  - 3. Reducing Costs
- B. Sampling

## IX. Errors and Bias

- A. Sources of Error
  - 1. Selection of Sample
  - 2. Original Data
  - 3. Processing Methods

## X. Statistical Administration

- A. General Principles
- B. Organization
  - 1. Definition
  - 2. Types
- C. Research and Planning
- D. Dissemination and Publication of Data
- E. Personnel Policy

E x a m i n a t i o n