Department of Census and Statistics in Sri Lanka

Course Modules and Durations

Module and Training Units	Duration
1.1 Module on Frameworks of Official Statistics	
Purpose :]
(1) To provide an overview of issues and ideas concerning the scope and organisation of Official Statistics, and its processes and products	2 days
(2) To provide a general foundation for a more detailed study of these elements	
OS1. Orientation to Sri Lanka Statistical System	1 day
OS2. Fundamental Principles of Official Statistics	1 day

1.2 Module on Basic Survey Skills Development (Written Paper)	
<i>Purpose</i> : To acquire knowledge about the nature of census and sample survey-taking and to develop skills by having participants design and conduct an actual survey under real-life conditions.	40 days
1.21 Sub-module on Survey Methods (two Assignments)	
Purpose: To introduce students to the practical aspects of censuses and surveys starting with planning, design an testing of questions and questionnaires, data collection methods, data processing, and dissemination	15 days
SM1. Planning Censuses and Sample Surveys for Collecting Data for Offi Statistics	cial 3 days
SM2. Design of Survey Questionnaires (Assignment 1)	3 days
SM3. Operational Considerations in Data Collection through Censuses and Sample Surveys	d 3 days
SM4. Processing of Data Collected from Censuses and Surveys (CSPro) (Assignment 2)	4 days

SM5.	Disser	nination	of	Census	and	Survey	Results

4 days

1.22 Sub-module on Basics of Sample Design (Assignment) Purpose: To introduce standard methods of drawing samples from finite populations and making inferences about population characteristics and to provide students with a general understanding of these methods and their	5 days
practical motivation and applications SD1. Basic Principles of Sampling and Inference for Finite Populations	2 days
SD2. Sample Selection and Estimation I	3 days

1.23 Sub-module on Basic Statistical Analysis of Census and Survey Data (Assignment)	13 days
IT1. Using Excel for Statistical Analysis	1 day
IT2. Using Statistical Software (SPSS/STATA) for Analyzing Survey Data	2 days
SA1. Analysis of Survey Data: Descriptive Statistics	2 days
SA2. Analysis of Survey Data: Probability and Distribution Theory	3 days
SA3. Analysis of Survey Data: Introduction to Tests of Hypotheses	2 days
SA4. Analysis of Survey Data: Introduction to Linear Correlation and Regression	3 days

1.24 Sub-module on Survey Project	5 days
SM6. Survey Project (Group Work)	

Part 2 (Compulsory)

Duration: One month or 20 days

Curriculum for Middle-level Training/Induction Programme in Official Statistics

Purpose:

- (1) To provide participants with specialist skills and knowledge which are central to the conduct of professional statistical work within government
- (2) To allow official statisticians to strengthen their professional skills and knowledge in a particular area.

Module and Training Units		Duration
2.1 Module on Core Topics in Offic	ial Statistics (Written Paper)	20 days
Purpose: To provide a broad exposur	System of National Accounts (Assignment) e to the economic accounting framework of the System of National Accounts arious sources of economic statistics are integrated within a structure which is in the economy	5 days
	NA1. Introduction to the System of National Accounts	5 days
2.12 Sub-module on Sampling and E Purpose: To develop understanding o	f the principles and methods of estimation from sample surveys.	6 days
	SD3. Sample Selection and Estimation II	6 days
2.13 Sub-module on Analysis of Stat	istical Data (Assignment)	
Purpose: To provide an overview of s series data	tatistical methods for linear and logistic regression and the analysis of time	7 days
	SA5. Analysis of Survey Data: Regression Models	4 days
	SA6. Time Series Analysis I- Basic Time Series Analysis	3 days
2.14 Sub-module on Basics of Gende	r Statistics	

Purpose: To provide an overview of gender statistics and indicators	of concepts of gender and gender issues and the importance and generation of	2 days
	GDR1. Concepts and Indicators, Data Sources, Analysis and Interpretation: Gender Statistics	2 days
2.15 Special Sub Module	•	5 days
	Geographic Information System	5 days

Part 3 (Two optional Modules)

Specialization Course [select two Modules]

Duration: Two months or 40 days

3.1 Module on National Accounts (Written Paper and Assignment)	
NA2. GDP Compilation	5 days
NA3. The Accounts	5 days
NA4. Input-output Tables and Analysis	5 days
NA5. Satellite Accounting Frameworks	5 days

3.2 Module on Economic Statistics (Written Paper and Assignment)	
ES1. Index Numbers: Theory, Construction and Application	5 days
ES2a. Key Concepts and Indicators, Data Sources, Analysis & Interpretation: Agriculture, Forestry, Fishing and Hunting	
ES2b. Key Concepts and Indicators, Data Sources, Analysis & Interpretation: Mining, Manufacturing, Electricity, Gas and Water, Construction	6 days
ES2c. Key Concepts and Indicators, Data Sources, Analysis & Interpretation: Distributive Trade	
ES2d. Key Concepts and Indicators, Data Sources, Analysis & Interpretation: Services	
ES3. Establishment and Enterprise Surveys	2 days
ES4. Statistics and Indicators of International Trade in Goods and Services	2 days

	ES5. Short-term Economic Indicators and Forecasting	3 days
	SA7. Time Series Analysis II- Introduction to ARIMA Models	5 days
3.3 Module on Demogr	raphic Statistics(Written Paper and Assignment)	20 days
	DS1. Key Concepts and Indicators, Data Sources, Analysis and Interpretation: Population and Growth, Migration, Population Dynamics, Mortality	5 days
	DS2. Key Concepts and Indicators, Data Sources, Analysis and Interpretation: Nuptiality and Fertility	2 days
	DS3. Key Concepts and Indicators, Data Sources, Analysis and Interpretation: Life Tables	3 days
	DS4. Estimation of Demographic Measures	5 days
	SA8. Population Projections: Theory and Methods	5 days

3.4 Module on Social Statistics (Written Paper (Written Paper and Assignment)	
Choose two:	
SS1. Key Concepts and Indicators, Data Sources, Analysis and Interpretation of Statistics on: Health, Nutrition and Disability	8 days
SS2. Key Concepts and Indicators, Data Sources, Analysis and Interpretation of Statistics on: Education	8 days
SS3. Key Concepts and Indicators, Data Sources, Analysis and Interpretation of Statistics on: Economic Activity, Employment, and Unemployment	8 days
SS4. Key Concepts and Indicators, Data Sources, Analysis and Interpretation of Statistics on: Income and Expenditure	8 days
SS5. Key Concepts and Indicators, Data Sources, Analysis and Interpretation of Statistics on: Poverty	8 days
Required	
SA9. Analysis of Social Statistics using Multivariate Techniques	4 days

3.5 Module on Statistics on Energy and the Environment (Written Paper and Assignment)	20 days
ENV1. Concepts and Indicators, Frameworks, Data Sources, Analys Interpretation: Environmental Statistics	sis and 10 days
ENV2. Environment and Natural Resources Accounting	5 days
ENV3. Concepts and Indicators, Frameworks, Data Sources, Analys Interpretation: Energy Statistics	sis and 5 days
3.6 Module on Current Measurement Issues in Official Statistics (Written Paper Assignment)	
3.6 Module on Current Measurement Issues in Official Statistics (Written Paper Assignment)	16 days
SPE1. Statistics for Monitoring the MDGs	16 days
	4 days

Part 4: (Compulsory)

4.1 Module on Research and Analysis (Dissertation)

Duration: 5 days for theory and Two months or 40 days for the thesis

Modules Summary

Curriculum for Certificate Course in Official Statistics

Module and Training Units	Duration
Module on Frameworks of Official Statistics	4 days
Module on Basic Survey Skills Development (except Survey Project)	40 days
Module on Core Topics in Official Statistics	20 days
Two Specialization Modules	40 days

Module on Research and Analysis	45 days
RA1. Research Methods and Report Writing	5 days
RA2. Thesis	40 days