Agenda

Training on CGE modeling

2 – 6 March 2020

(Tunisia)

This introductory training will allow participants to be able to construct and use input-output models, SAM multiplier models and a basic CGE model describing an open economy with government.

Session 1: Input output table and SAM

1. Input-output (IO) tables: structure and main utilization
2. SAM: structure and main utilization

Session 2: Input output and SAM multiplier models

1. Constructing a SAM and computation of input-output and SAM multipliers: a case study
2. Simulations using IO and SAM multiplier models

Session 3: Theoretical development of a basic CGE model

Session 4: Presentation and use of the CGE through the UNESCWA interface

Session 5: Get used to the GAMS software

Session 6: How to construct a CGE model

Session 7: Social Accounting Matrix and calibration of the model

1 Presentation of the social accounting Matrix of the theoretical model developed during the preceding sessions
2 Calibration of the model.

Session 8: Functional forms in CGE models

1 Main functional forms used in CGE models (Cob-Douglas, CES, LES)
2 Calibration of the main functional forms

Session 9: Constructing a closed economy 2 sectors CGE model using GAMS

Presentation of the structure of a model programmed in GAMS language.

Session 10: Implementation of the model developed during the last sessions in GAMS.

Session 11: Calibration and Simulation of the model.

Session 12: Introduction of the government in the model: Definition of government equations.

Session 13: Implementation of the model developed during the last sessions in GAMS.

Session 14: Calibration and Simulation of the model.

Session 15: Modeling an open economy with government: Definition of external trade equations.

Session 16: Implementation of the model developed during the last sessions in GAMS.

Session 17: Calibration and Simulation of the model.

Session 18: overview of the model construction for Tunisia

Session 19: overview of the model construction for Tunisia

Session 20: Simulation of energy reform option in Tunisia