



An Asian MetaCentre Training Workshop on

Demographic Analysis with Applications to Aging Societies

*November 7-18, 2016
Bangkok, Thailand*

This workshop is organized by College of Population Studies,
Chulalongkorn University in collaboration with
International Institute for Applied Systems Analysis (IIASA) and
Asia Research Institute, National University of Singapore





Overview

This workshop is a training course on demographic analysis and computer applications with an emphasis on planning in aging societies and population projections. The taught methods and concepts can be applied to perform typical tasks of demographic analysis, utilizing basic and advanced spreadsheet techniques in Microsoft Excel. The topics covered in the course are:

- Population age composition and its measures, period-cohort transformations, introduction to Excel advanced function
- Advanced techniques of data presentation, interactive graphical systems
- Life tables and mortality analysis
- Multiple-decrement life tables and their applications
- Fertility measures
- Stable populations
- Working with large data sets
- Introduction to Visual Basic for Application (VBA)
- New measures of age and aging
- Model age patterns of vital rates, mortality, fertility, and migration
- Data graduation and smoothing technique
- Population projections, parameterized population projections
- Introduction to R for demographers

Structure

The workshop will be taught through a mixture of lectures, hands-on practical sessions and exercises. The course will run from 09.00 to 15.00 every day. Certification is based on the completion of daily assignments and the pass of a final examination.

Instructor

The course is taught by professor Sergei Scherbov, one of the world's leading experts in demographic computer applications. Prof. Scherbov is the Deputy Program Director of IIASA's World Population Program (POP), Director of Demographic Analysis at the Wittgenstein Centre for Demography and Global Human Capital (IIASA, VID/ÖAW, WU), and Leader of the Population Dynamics and Forecasting Research Group at the Vienna Institute of Demography (VID), Austrian Academy of Sciences. He is also Affiliated Professor at the College of Population Studies, Chulalongkorn University, Thailand. He authored or co-authored about 200 scientific papers including 6 papers in Science and Nature.



Prospective applicants

The training workshop is designed for junior scientists, researchers and graduate students whose field of interest is related to population studies. It also suits early- to mid-career professionals working in statistical offices or research institutes. It also caters to those who teach demographic techniques at universities who wish to reinforce their skills and gain knowledge of advanced techniques regarding demographic analysis.



Application process

Interested applicants are asked to fill in and return the application form, questionnaire, and their CV to Dr. Wiraporn Pothisiri (Workshop Coordinator) at Wiraporn.P@chula.ac.th by **July 1, 2016**. Applications will be reviewed during July, 2016 and result notifications to applicants will be submitted by **August 5, 2016**. Kindly note that there may be a quota for the number of participants.

Registration Fee Waivers

Scholarships are also available to two PhD students. Interested applicants must also submit a short statement of motivation along with other application documents.

Workshop Venue

The workshop will take place at the College of Population Studies, Chulalongkorn University.

Course fees

Fee options

- | | | |
|-----|----------------------------|--------|
| (1) | Course fee | €850 |
| (2) | Course fee & accommodation | €1,450 |

Course fee includes course materials, lunch, and refreshments. Early registration for Course fee and accommodation is highly suggested. All payments must be made by **September 16, 2016**. Please note that no fees will be refunded for cancellations after **October 7, 2016**. Accommodation booking is non-changeable and non-refundable, if booked via organizers. If booked via participants, hotel rules may apply.

Daily cost of living

The estimated cost of living in Bangkok, excluding accommodation, is about 400-600 Bath(10-15€) per day.

For queries, please contact the Secretariat: Dr. Wiraporn Pothisiri
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Chulalongkorn University
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Email: Wiraporn.P@chula.ac.th
Or visit our website at:
<http://www.cps.chula.ac.th/en/>

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Application Form

(Please type or use CAPITAL letters as stated in the passport)

Title: Dr. Mr. Mrs. Ms.

Family name: _____ Given name: _____

Sex: F/M Date of Birth: (DD/MM/YY) Nationality: _____

Current position/ Job Title: _____

Institutional Affiliation: _____

Institutional mailing address: _____

Country of Residence: _____

Phone Number: Office: _____ Home: _____

Fax Number: _____ Email: _____

Please check relevant boxes

Fees: Course fee €850

Course fee and 15-night accommodation €1,450

Source of funding: Self-funded

Funded by organization: _____

For those who seek funding, please identify your possible funding source

Dietary requirement: Vegetarian Halal food Gluten free

A special diet (Please specify): _____

Signature of Applicant: _____ Date: _____

QUESTIONNAIRE FOR COURSE APPLICANTS

This questionnaire's purpose is to estimate the level of knowledge of applicants on the areas covered in the course to customize the workshop to their prospective needs. Kindly keep in mind that basic functions of systems may be excluded during the workshop to focus on covering the range of topics.

Please fill in the form using the following symbols:

- ++ I know the subject or I can calculate this indicator or I know how to apply this function
- + I heard about this subject, indicator or function. But I have never calculated it or used it myself.
- I have some vague idea about this subject
- I have no idea what it is about

Subject, indicator, function	Level of knowledge
1. Selected demographic indicators of models	
1.1. Age specific mortality, fertility, migration rates	
1.2. Total fertility rate	
1.3. Life table	
1.4. Population projections (cohort-component method)	
1.5. Gamma fertility model	
1.6. Brass relational logit model (mortality)	
2. Working with Excel	
2.1. Navigation in a workbook, entering data in a worksheet	
2.2. Using simple formulas	
2.3. Ranges. Copying and moving ranges with data and formulas	
2.4. Relative and absolute cell reference in Excel	
2.5. Making charts	
2.6. Excel functions: INDEX, MATCH, VLOOKUP, HLOOKUP	
2.7. Pivot tables	
2.8. Excel's linear regression functions	
2.9. Using Visual Basic for Applications	
3. General skills:	
3.1. Linear interpolation	
3.2. Linear regression	
3.3. Non-linear regression	