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| 2025



EXECUTIVE TRAINING PROGRAMME



Prepared By
Deputy Dean Office (Research & Innovation)



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BASIC WORKSHOP ON STRUCTURAL EQUATION MODELLING (SEM) USING AMOS

POSTPONED TO:
25 - 26 March 2025 (Tuesday & Wednesday)

19-20 FEB 2025 | **9 AM - 5 PM** | **RM 500 FEE/PERSON**

PLATFORM : ZOOM ONLINE MEETING

DAY 1 Stages in SEM Analyses
DAY 2 Multi Model Path Analysis

SPEAKER
DR. ANUSUIYA SUBRAMANIAM
Assistant Dean (Internationalization)
School of Business and Economics (SBE) UPM

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Basic Workshop on Structural Equation Modelling (SEM) Using AMOS

Speaker: DR. ANUSUIYA SUBRAMANIAM

Provide participants with a comprehensive understanding of SEM techniques. The workshop covered both theoretical foundations and practical applications of SEM, highlighting its role as a confirmatory analytical tool that extends the General Linear Model (GLM). Participants were introduced to key components such as Confirmatory Factor Analysis (CFA), path analysis and multiple regression. SEM is a second-generation statistical analysis technique developed for analysing the inter-relationships among multiple variables in a model.

In addition, the workshop emphasised the distinct advantages of SEM over multiple regression methods, including its ability to handle measurement errors, model mediators and moderators, and test models with multiple dependent variables. The two core SEM model types—measurement and structural—were thoroughly discussed, alongside guidance on interpreting SEM outputs. Participants also received hands-on training in using AMOS with SPSS files and demonstrated advanced techniques such as multi-model path analysis and tests for mediation and moderation effects.

ECONOMIC VALUATION USING CHOICE EXPERIMENT METHOD: STEP-BY-STEP PRACTICE

SPEAKER
DR. WAN NORHIDAYAH W MOHAMAD
 School of Business and Economics (SBE), UPM

Course Content:

- Introduction
- Overview of Choice Experiment
- Design Process of Choice Experiment
- Choice Experiment Practice: Step-by-step
- Hands On (practicing with data)

13-14 August 2025
 9:00am - 5:00pm

ONLINE ZOOM LEARNING

Fee: RM 500

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Economic Valuation Using Choice Experiment Method: Step-by-Step Practice

Speaker: DR. WAN NORHIDAYAH W MOHAMAD

Provide participants with a comprehensive understanding of the Choice Experiment (CE) survey method as a tool for economic valuation of non-market goods and services. The course aims to equip participants with the necessary knowledge and skills to design and implement CE exercises effectively, including creating hypothetical scenarios, selecting attributes, and estimating economic values.

Additionally, the workshop seeks to highlight the advantages of the CE method over traditional valuation techniques, fostering its application in addressing policy and research needs. This course is tailored to benefit students, researchers, and practitioners by enhancing their ability to conduct rigorous and impactful economic valuation studies.

DATA ENVELOPMENT ANALYSIS:

EFFICIENCY & PRODUCTIVITY IN DECISION MAKING UNITS

TOPICS INCLUDE

- Introduction to Data Envelopment Analysis
- DEA Technical Efficiency (CRS), DEA Pure Technical Efficiency and Scale (VRS), DEA Cost, DEA Malmquist Productivity Index, DEA Test (SPSS)
- Hands-on session using real data

Assoc. Prof. Dr. Fakarudin Kamarudin
School of Business and Economics,
Universiti Putra Malaysia

Dr. Soh Wei Ni
School of Business and Economics,
Universiti Putra Malaysia

REGISTER NOW

10 - 11 September 2025 (Wednesday & Thursday)

9:30 AM - 3:30 PM

SCL 1, BLOCK E, SBE, UPM

Fee: RM700

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Data Envelopment Analysis: Efficiency & Productivity in Decision Making Units

Speaker: ASSOC. PROF. DR. FAKARUDIN KAMARUDIN

Provide participants with a fundamental concepts of Data Envelopment Analysis (DEA) and its role as a non-parametric method for evaluating the relative efficiency of decision-making units (DMUs). The session covered the evolution of DEA, its key advantages, the various methodological approaches, as well as the decomposition of DEA efficiency scores and the DEA-based Malmquist Productivity Index (MPI) to understand productivity changes over time.

Additionally, participants were guided through the interpretation of DEA results under both the Constant Returns to Scale (CRS) and Variable Returns to Scale (VRS) assumptions. Participants were guided on how to interpret input and output slacks, identify peer (reference) units, and evaluate the target input and output values for inefficient units. The session also explained the distinction between technical efficiency, pure technical efficiency, and scale efficiency.

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Data Envelopment Analysis – Efficiency & Productivity in Decision Making Units

Speaker: DR. SOH WEI NI

Provide participants with a comprehensive understanding of Data Envelopment Analysis (DEA) as a non-parametric approach for measuring efficiency, productivity, and performance across decision-making units. The workshop equips participants with the knowledge and practical skills to evaluate cost efficiency, allocative efficiency, and technical efficiency, as well as to apply the Malmquist Productivity Index (MPI) in measuring productivity changes over time.

Additionally, participants gain hands-on experience in analysing real-world data by identifying appropriate inputs and outputs, applying CCR (CRS) and BCC (VRS) models, interpreting efficiency results, and proposing the most suitable analytical model. The course is designed to strengthen participants' analytical capabilities and support the application of DEA in research, policy evaluation, and organisational performance assessment.

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The poster is for a workshop titled "PANEL DATA ANALYSIS – SHORT PANELS (MICRO PANELS)". It features the logos of UPM (Universiti Putra Malaysia), SBE (School of Business and Economics), AACSB, EQUIS, and AMBA. The event is scheduled for 6-7 November 2025, Thursday & Friday, from 08:30 AM to 05:00 PM at the Digital Nexus Lab, Block E, SBE. The fee is RM 700 for local participants and USD \$170 for international participants. Topics include Static Linear Panel Models, Firm-Level Panel Data Estimations, Dynamic Panel Models, and LSDV Corrected. A QR code and a "REGISTER NOW" button are provided. The speaker is Prof. Dr. Law Siong Hook, School of Business and Economics (SBE), UPM. The poster also includes the UPM motto "With Knowledge We Serve" and the website econ.upm.edu.my.

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PANEL DATA ANALYSIS – SHORT PANELS (MICRO PANELS)

6 – 7 NOVEMBER 2025
THURSDAY & FRIDAY

RM 700 | **USD \$170**
(INTERNATIONAL PARTICIPANTS)

DIGITAL NEXUS LAB, BLOCK E, SBE

08:30 AM – 05:00 PM

TOPICS INCLUDE

- ✓ Static Linear Panel Models
- ✓ Firm-Level Panel Data Estimations
- ✓ Dynamic Panel Models
- ✓ LSDV Corrected

PROF. DR. LAW SIONG HOOK
SCHOOL OF BUSINESS AND ECONOMICS (SBE), UPM

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Workshop Panel Data Analysis – Short Panels (Micro Panels)

Speaker: PROFESSOR DR. LAW SIONG HOOK

This course focuses on the interpretation of short panel-data estimates (where the number of cross-sectional unit (N) is greater than time series period (T), and the assumptions underlying the models that give rise to them. The workshop covers the analysis and implementation of linear, firm-level, dynamic panel data estimations.

The workshop aims to familiarize participants with panel data structures and equip them with core skills in using panel data methods. This will be achieved through a combination of short lectures and computer lab sessions, with greater emphasis on giving participants hands-on experience.



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