

[DRAFT]

COURSE OUTLINE

**EE 552: SELECTED TOPICS IN INTERNATIONAL
ECONOMICS 2**

Semester:	2/2017
Instructor	Dr. Nattapong Puttanapong Email: <i>nattapong@econ.tu.ac.th</i>
Lecture Time:	TBA
Office Hours:	Wednesday: 9.30am – 11.30am or by appointment
Lecture Venue:	TBA Faculty of Economics Tha Prachan campus

Course Description

With the continuously evolving structure of global trade, a large number of new data and analytical techniques have been developed in order to deepen and broaden conventional understanding. Influenced by these dynamic changes, this class aims at introducing the new frontier of data and analytical methods in international trade. Specifically, the network analysis and decomposition technique are main topics of this class, enabling the in-depth investigation of global transmission mechanism of adjustment. In addition, these tools can be applied to the analysis of linkages between global trade and its impacts on labor markets and natural resources, ultimately yielding the complete analysis of impacts of international trade.

Requirement

Having some background in micro and macroeconomics (preferably, but not restricted to, intermediate levels) would be helpful in the understanding the course content. Some knowledge on basic quantitative methods particularly in matrix operations, and some computer programming skills (such as MS Excel) will also be helpful.

Evaluation

The students will be evaluated by the following guidelines. There are 2 assignments, which both research papers. For each paper, the student has to conduct the literature review and submit the written report (4 pages). Also the student has to develop the research paper and submit the full-text paper with the length of 10-12 pages (excluding tables and figures). For all assignments, the student has to conduct the class presentation to exhibit the main finding. It is noted that all students are encouraged to think about their project topics early in the semester, so that the instructor can properly guide them through their issues of interests.

Assignment no.	Relevant learning outcomes	Assessment methods	Assessment week	Proportion of assessment score
1	Review of literature of paper 1	Written report and class presentation	6 th	15
2	Full analysis of paper 1	Written report and class presentation	8 th	35
3	Review of literature of paper 2	Written report and class presentation	13 th	15
4	Review of literature of paper 2	Written report and class presentation	15 th	35

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Week no.	Topic/Content	Activities
1	Global Input-Output Table - Introduction	1. Introduction to Global IO Table 2. Examining the data system and its rationale

2	Global Input-Output Table – Multiplier and Linkage Analysis	1. IO Multiplier, computation techniques, and its policy implication
3	Structural Decomposition Analysis (SDA)	1. Theory of SDA 2. Application of SDA
4	Structural Path Analysis (SPA)	1. Theory of SPA 2. Application of SPA
5	Global Input-Output Table – Construction and Balancing	1. Source of data 2. Balancing technique
6	Students’ Presentation on Project 1 (Review of literature)	
7	Decomposition of Trade in Value Added – Fundamental	1. Fundamental of value-added decomposition in international trade 2. Mathematical method and computational software
8	Students’ Presentation on Project 1 (Full paper)	
8	Decomposition of Trade in Value Added – Applications in Global Trade Analysis	1. Source of data 2. Applications in trade policies 3. Applications in resource policies
9	Network Analysis – Overview	1. Fundamental of Network Theory 2. Applications of Gephi software on data visualization
10	Network Analysis – Computation of network indicators	1. Fundamental of computation of key indicators 2. Applications of Gephi software in index calculation
11	Network Analysis – Applications on international trade	1. Review of literature related to Network Analysis and Trade
12	Network Analysis – Applications on international trade (continued)	1. Main issues in international trade and applications of network analysis 2. Applications of Gephi on international trade analysis

13	Students' Presentation on Project 2 (Review of literature)	
14	Summary – Integration of data and analytical methods on international trade	1. Issues on data integration 2. Issues on the combination of analytical methods
15	Students' Presentation on Project 2 (Full paper)	