



B.E. International Program

Faculty of Economics, Thammasat University



COURSE OUTLINE

EE 552: SELECTED TOPICS IN INTERNATIONAL ECONOMICS 2

(Structural Analysis of Global Value Chain)

Semester	2/2017 (January 8 – May 20, 2018)
Instructor	Asst.Prof.Dr. Nattapong Puttanapong Email: <i>nattapong@econ.tu.ac.th</i>
Office Hours:	Wednesday: 11.00am – 12.00pm or by appointment
Lecture Time:	09.30 - 11.00am, Wednesday & Friday
Lecture Venue:	Room 204, 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	14 th	15
4	Full analysis of paper 2	Written report and class presentation	16 th	35

Course Outline

Week no.		Topic/Content	Activities
1	10,12 and 17 Jan 2018	Global Input-Output Table - Introduction	1. Introduction to Global IO Table 2. Examining the data system and its rationale
2	19 Jan 2018	Global Input-Output Table – Multiplier and Linkage Analysis	1. IO Multiplier, computation techniques, and its policy implication
3	7 and 9 Feb 2018	Structural Decomposition Analysis (SDA)	1. Theory of SDA 2. Application of SDA
4	14 and 16 Feb 2018	Structural Path Analysis (SPA)	1. Theory of SPA 2. Application of SPA

5	21 and 23 Feb 2018	Global Input-Output Table – Construction and Balancing	1. Source of data 2. Balancing technique
6	28 Feb 2018	Students' Presentation on Project 1 (Review of literature)	
7	2 and 7 March 2018	Decomposition of Trade in Value Added – Fundamental	1. Fundamental of value-added decomposition in international trade 2. Mathematical method and computational software
8	9 March 2018	Students' Presentation on Project 1 (Full paper)	
9	21 and 23 March 2018	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
10	28 and 30 March 2018	Network Analysis – Overview	1. Fundamental of Network Theory 2. Applications of Gephi software on data visualization
11	4 and 18 April 2018	Network Analysis – Computation of network indicators	1. Fundamental of computation of key indicators 2. Applications of Gephi software in index calculation
12	20 April 2018	Network Analysis – Applications on international trade	1. Review of literature related to Network Analysis and Trade
13	25 and 27 April 2018	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
14	2 May 2018	Students' Presentation on Project 2 (Review of literature)	
15	4 and 9 May 2018	Summary – Integration of data and analytical methods on international trade	1. Issues on data integration 2. Issues on the combination of analytical methods
16	11,16 and 18 May 2018	Students' Presentation on Project 2 (Full paper)	

References

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