

# EE375 Applied Economics for Natural Resources and Environment

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11 August 2564



Class Information:

[BE Moodle](#) (Enrollment key for BE Moodle: 4569)

[TUGREATS app](#)



# Agenda

**Introduce course  
outline**

**Knowing each  
other**

**Lecture Topic 1**



# EE375 Applied Economics for Natural Resources and Environment

Semester 1/2021 (August 9 – November 27, 2021)

- **Class day:** Wednesday and Friday
- **Class time:** 14:00 – 15:30
- **Teaching Materials Platform:** [BE Moodle](#) (Enrollment key for BE Moodle: 4569 (<http://bemoodle.econ.tu.ac.th/>)) and [Google Classroom Drive](#)
- **Class Lecture Platform:** Zoom Meeting at <https://zoom.us/j/99803340562>

## Course Objectives:

The course aims to provide fundamental knowledge on what topics are discussed in the fields of natural resources and environment, how economic concepts are applied to analyze issues in these fields, and how to approach a range of natural resource management and environmental problems using economic instruments to inform private and public sector with policy considerations.



## Class topics and grading criteria

Mid-term	Final
1. Introduction	9. Economics of Climate Change
2. Economic Approach	10. Economics of Pollution Controls
3. Valuing the environment: Concepts and methods	11. Applications: Air pollution
4. Applications: Energy	12. Applications: Water pollution
5. Applications: Water	13. Applications: Waste and toxic substances
6. Applications: Land	14. Sustainable Development
7. Applications: Forest	Group project presentations
8. Applications: Fishery	Summary and review

### Main Reading Lists:

**[TL]** – Tietenberg, T. and Lewis, L. Environmental Natural Resource Economics, 2015 (10<sup>th</sup> edition), Pearson.

**[HSW]** – Hanley, N., Shogren, J. and White, B., Introduction to Environmental Economics 2013 (2<sup>nd</sup> edition), Oxford University Press.

Additional materials related to the topics will be provided during the class



# Grading criteria

## Mid-term exam: 30%

on Friday Oct 1 at 12:00 – 14:00

## Assignment and Quiz: 20%

### Group project: 20%

(+ Bonus points for active class participation)

## Final Exam: 30%

Wednesday Dec 1 at 9:00 – 11:30



### Group Project (after mid-term exam)

Students will work in groups of 4-5. Each group will identify problems of interests related to natural resources and environment, approach the problems using economic concepts and tools and propose policy considerations.

The evaluation will be based on the quality of two deliverables

- i) A 20-minute group presentation
- ii) A 5-page policy brief.

Note: A Zoom poll for group assignment



# Know Ajarn Supawan (Name)



Education: Economics and Finance

Work experience:

PwC Thailand, USAID Clean Power Asia, Agora Energiewende  
UNU-WIDER, CLiMiP, TSA, WHA Corporation, Creagy

Awards: First runner-up in Economics Article Competition and awarded Good Research Proposal from Setthatat and awarded good PhD dissertation from NRCT

Papers and reports: Carbon tax and household demand, economic analysis of distributed PV, disruptive technologies

Link: [google scholar](#)



# Knowing each other



**Group 1**  
:KANJANANUN  
PINYU  
KASIDIT  
PANISA

**Group 2:**  
WARIS  
NATTHAPAT  
SUPREEDA  
NUTTHAPAT

**Group 3:**  
RATTAYA  
VIRADEE  
ANANYA  
PHOTCHANAN  
LAKSIKA

**Group 4:**  
HARUSHIGE  
NATTHAKORN  
NISIRA  
PONGPOB  
PIYAMON

**Group 5:**  
CHANANYA  
APICHA  
THEERUJ  
PORNPI SUTH  
CHONCHANOK

**Group 6:**  
NATHANON  
JADE  
PARIMA  
WARINTORN  
KORNCHANOK

**Group 7:**  
SIRAPHOP  
VICHAYAPORN  
THANAPHOL  
ORNWARA  
KANYAKORN

**Group 8:**  
CHANAMON  
KRITTAYANAN  
JITTRAPAT  
SIROT  
VEERASET

**Group 9:**  
PUNYAPORN  
CHUTIKARN  
KAWIN  
SUDA  
PAPAWEE

**Group 10:**  
JOMKON  
SAPAN  
PARIYAKORN  
RAWIKORN  
KAN

**Group 11:**  
PANIDA  
VICHAYA  
KANAWAT  
NICHANAN  
NAKAMON

## Zoom Breakout Group

1. Know each others
2. Chat on your plan after graduation/career path



# Topic 1: Introduction to Natural Resources and Environmental Economics

1.1 Relationship between economics, natural resources and environment



1.2 Key insights from Economics

