

## Course Outline

### EE465 Sustainable Development

Semester 2/2022 (January 9<sup>th</sup> – May 6<sup>th</sup>, 2023)

**Number of Credit:** 3 credits

**Prerequisite:** EE212 (or EE214) and EE311

**Course Description:** Development of sustainable development approach under context of socio-politico-economic development at different levels. Sustainable development crises at global level and in Thailand. Definitions and fundamental ideas regarding Sustainable Development and contemporary debates. Other approaches related to sustainable development and their critiques, such as Gross National Happiness (GNH), Sufficiency Economy Philosophy, Green Growth, etc. Economic theories related to sustainable development, such as the analysis of externalities, public goods, common-pool resources, ecological economics, Green Economy, and economic measures for sustainable development. Policies and indicators related to sustainable development at global level, particularly the Sustainable Development Goals (SDGs). Challenges and obstacles to achieve sustainable development.

#### Course Objectives:

#### Class Time and Logistic

**Class day:** Tuesday & Thursday

**Class time:** 09.30 – 11.00 hrs.

**Venue:** Room 202, Faculty of Economics

**Teaching Materials Platform:** Google Classroom (please use @st.econ.tu.ac.th)

<https://classroom.google.com/c/NTA5MzM0Nzk5NDI3?cjc=dwmbeye>

**Instructor:****Name:** Asst. Prof. Chol Bunnag**Office Hours:** Tuesday and Thursday, 13.00 – 15.00 hours.**Email:** [cholb@econ.tu.ac.th](mailto:cholb@econ.tu.ac.th)**Expected Learning Outcomes****1. Morality and Ethics: EE465**

Applicability	Expected Learning Outcomes	Evaluation Method
●	1. Students demonstrate integrity.	Number and proportion of students cheating and plagiarizing.
●	2. Students prioritize social and public benefits over personal ones.	n/a
●	3. Students are punctual and comply with the code of conduct of the institution and society at large.	Number and proportion of students coming to class later than 5 minutes from the starting time.
●	4. Students are responsible and accountable to society, the nation, and the subject of economics.	n/a
●	5. Students realize the cultural and environmental value of a sustainable society.	Essay writing

**2. Knowledge**

Applicability	Expected Learning Outcomes	
●	1. Students know and understand modern economics principles and theories, and are up to date with new developments.	Midterm and Final exams, presentation assignments.
●	2. Students know and understand Thai and global economic structure and the importance of major international economic events.	Midterm and Final exams, presentation assignments.
○	3. Students know and understand the instruments of economic analysis.	Midterm and Final exams,
●	4. Students know and understand applied fields in economics, including monetary, public, international, business, natural resource, and environmental, industrial, agricultural,	Midterm and Final exams, presentation assignments.

	cooperative, political, developmental, and entrepreneurial economics as well as agribusiness.	
○	5. Students are informed about related fields including sociology, business administration, education, law policy, and science.	Midterm and Final exams, presentation assignments.

### 3. Intellectual Development

Applicability	Expected Learning Outcomes	
●	1. Students have developed individual critical thinking.	Essay writing
●	2. Students are sufficiently trained in research skills.	Essay writing
●	3. Students demonstrate an ability to analyze and synthesize data, as well as appropriately integrate economics concepts to understand the causes of current economic problems in Thailand. Based on analysis and synthesis, students demonstrate an ability to propose policy guidelines to resolve problems.	Essay writing and presentation assignments

### 4. Interpersonal Skills and Responsibilities

Applicability	Expected Learning Outcomes	
●	1. Students are responsible for assigned tasks and work in groups effectively.	Number and proportion of students submitting assignments in time.
●	2. Students have problem-solving skills.	Essay writing and presentation assignments
○	3. Students show leadership skills and team spirit.	Essay writing and presentation assignments
●	4. Students are always improving themselves.	Overall evaluation.
○	5. Students have good interpersonal skills, adapt, and work under different conditions.	n/a

### 5. Quantitative Analysis, communication, and information technology

Applicability	Expected Learning Outcomes	
○	1. Students select and apply appropriate statistical and mathematical methods for data processing, interpretation, conclusions, and recommendations to resolve problems.	n/a

○	2. Students communicate effectively and select appropriate presentation methods.	Presentation assignments
○	3. Students use information and communication technologies appropriately to gather data as well as process, interpret, and present results.	Presentation assignments

Remark: ● Primary expected outcome ○ Secondary

### Main Text:

Sachs, Jeffrey D. 2015. *The Age of Sustainable Development*. New York, NY: Columbia University Press.

Raworth, Kate. 2018. *Doughnut Economics*. London, England: Random House Business Books.

### Recommended Texts & Materials:

Walker, Julia, Alma Pekmezovic, and Gordon Walker. 2019. *Sustainable Development Goals: Harnessing Business to Achieve the SDGs through Finance, Technology and Law Reform*.

Polasky, Stephen, Catherine L. Kling, Simon A. Levin, Stephen R. Carpenter, Gretchen C. Daily, Paul R. Ehrlich, Geoffrey M. Heal, and Jane Lubchenco. 2019. "Role of Economics in Analyzing the Environment and Sustainable Development." *Proceedings of the National Academy of Sciences of the United States of America* 116 (12): 5233–38.

### Suggested Readings:

Brandon, Alec, John A. List, Robert D. Metcalfe, Michael K. Price, and Florian Rundhammer. 2019. "Testing for Crowd out in Social Nudges: Evidence from a Natural Field Experiment in the Market for Electricity." *Proceedings of the National Academy of Sciences of the United States of America* 116 (12): 5293–98.

Carlsson, Fredrik, and Olof Johansson-Stenman. 2012. "Behavioral Economics and Environmental Policy." *Annual Review of Resource Economics* 4 (1): 75–99.

Dodds, Felix, David Donoghue, and Jimena Leiva Roesch. 2016. *Negotiating the Sustainable Development Goals*. London, England: Routledge.

Kanie, Norichika, and Frank Biermann, eds. 2018. *Governing through Goals : Sustainable Development Goals as Governance Innovation*. Earth System Governance. London, England: MIT Press.

Kotchen, Matthew J., and Kathleen Segerson. 2019. "On the Use of Group Performance and Rights for Environmental Protection and Resource Management." *Proceedings of the National Academy of Sciences of the United States of America* 116 (12): 5285–92.

Monkelbaan, Joachim. 2019. *Governance for the Sustainable Development Goals: Exploring an Integrative Framework of Theories, Tools, and Competencies*. Springer, Singapore.

Ostrom, Elinor. 1990. *Governing the Commons*. Cambridge University Press.  
 Wright, Diana, and Donella H. Meadows. 2009. *Thinking in Systems*. London, England: Earthscan

### Grading Criteria:

1. **Midterm Exam:** Thursday, March 2, 2023; 09.00 - 11.00 hrs. (30 percent)
2. **Final exam:** Monday, May 15, 2023; 13.30 - 16.30 hrs. (40 percent)
3. **Assignment 1: Reflection on SDG Game:** Submission date: Tuesday, January 24, 2023 (5 percent)
4. **Assignment 2: Understanding issues in sustainable development:** A group assignment. Instruction will be provided in class. Presentation on week 5, 6 and 7 (10 percent)
5. **Assignment 3: Article review essay:** Instruction will be provided in class. Submission date: May 4, 2023
6. **Participation:** Proportion of In-class participation via Mentimeter (10 percent)

### Tentative Class Schedule:

Week	Topic	Remarks
1	<b>1. Overview of Sustainable Development</b> <ul style="list-style-type: none"> <li>• History of economic development and the need for sustainable development</li> <li>• Concept of Sustainable Development and related concepts</li> <li>• Overview of the Sustainable Development Goals (SDGs)</li> </ul>	
2		SDG Game on Thursday January 19, 2023, by a certified facilitator.
3	<b>2. Basic economic theories for sustainability</b> <ul style="list-style-type: none"> <li>• Static Efficiency</li> <li>• Market Failures</li> <li>• Government Failure</li> <li>• Public Goods</li> <li>• Common Pool Resources</li> <li>• Dynamic efficiency and sustainability</li> </ul>	Submit reflection on SDG Game on Tuesday, January 24, 2023.
4		
5	<b>3. Assignment 2: Understanding issues in sustainable development</b> <ul style="list-style-type: none"> <li>• A group assignment (4-5 students a group).</li> <li>• 15 minutes presentation on a selected topic.</li> </ul>	
6		
7		
8	<b>Midterm Exam:</b> Thursday, March 2, 2023; 09.00 - 11.00 hrs.	
9	<b>4. Economics for Sustainable Development</b>	Guest speaker on Finance for

Week	Topic	Remarks
10	<ul style="list-style-type: none"> <li>• Kate Raworth's Doughnut Economics</li> <li>• Sufficiency Economy Philosophy</li> <li>• Finance for Development</li> <li>• Trade and Development</li> </ul>	Development from UNDP
11		
12	<b>5. SDG implementation</b> <ul style="list-style-type: none"> <li>• The MDGs and the SDGs</li> <li>• SDG structure and principles</li> <li>• SDG indicators</li> <li>• Governance for SDGs</li> <li>• Sustainability Transformation</li> <li>• The BCG policies</li> </ul>	
13		
14	<b>Songkran Week</b>	
15	<b>6. SDG in action</b> <ul style="list-style-type: none"> <li>• Thailand's policies and strategies for achieving the SDGs</li> <li>• Private sector and the SDGs</li> <li>• Roles of universities in achieving the SDGs</li> <li>• Roles of Civil Society in SDG implementation</li> </ul>	Guest speakers from NESDC and Global Compact Network Thailand (tentative)
16		
17		Submit article review essay on May 4, 2023.
	<b>Final exam:</b> Monday, May 15, 2023; 13.30 - 16.30 hrs.	