

## Tamkang University Academic Year 106, 1st Semester Course Syllabus

Course Title	ENERGY POLICY AND MANAGEMENT	Instructor	LIAO HUEI-CHU
Course Class	TLYAM2A MASTER'S PROGRAM IN ECONOMICS AND FINANCE, DEPARTMENT OF ECONOMICS, 2A	Details	<ul style="list-style-type: none"> <li>◆ Selective</li> <li>◆ One Semester</li> <li>◆ 3 Credits</li> </ul>
<b>Departmental Aim of Education</b>			
<ul style="list-style-type: none"> <li>I. Establish a strong core foundation and enhance advanced specialized skills.</li> <li>II. Encourage active thinking and cultivate independent analysis.</li> <li>III. Creatively apply specialized knowledge and skills to practical issues.</li> <li>IV. Emphasize the development of group communication, coordination and cooperation.</li> <li>V. Shape an international perspective and civic consciousness.</li> </ul>			
<b>Departmental core competences</b>			
<ul style="list-style-type: none"> <li>A. Have a firm grasp of advanced economic concepts.</li> <li>B. Have the ability to apply advanced analytical tools to economic issues.</li> <li>C. Understand the interrelations in practice between advanced economics and finance.</li> <li>D. Possess the skill to communicate and integrate advanced economic concepts.</li> <li>E. Understand and be able to analyze international economic affairs and trends.</li> <li>F. Have the skill to apply advanced economic analysis to welfare topics.</li> </ul>			
Course Introduction	<p>Focusing on the new trend of international energy development, this course analyze the problem of each traditional energy: oil, coal, gas, electricity and renewable energy. While, several hot issues of energy policy, energy and environment, and the climate change resulted from the more fossil energy use are also arranged in the final part.</p>		

**The Relevance among Teaching Objectives, Objective Levels and Departmental core competences**

I.Objective Levels (select applicable ones) :

- (i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying,  
C4-Analyzing, C5-Evaluating, C6-Creating
- (ii) Psychomotor Domain : P1-Imitation, P2-Mechanism, P3-Independent Operation,  
P4-Linked Operation, P5-Automation, P6-Origination
- (iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing,  
A4-Organizing, A5-Charaterizing, A6-Implementing

II.The Relevance among Teaching Objectives, Objective Levels and Departmental core competences :

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5,and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Departmental core competences
1	C5	C5	BE

**Teaching Objectives, Teaching Methods and Assessment**

No.	Teaching Objectives	Teaching Methods	Assessment
1	C5	Lecture, Discussion, Problem solving	Written test

This course has been designed to cultivate the following essential qualities in TKU students

Essential Qualities of TKU Students	Description
◆ A global perspective	Helping students develop a broader perspective from which to understand international affairs and global development.
◆ Information literacy	Becoming adept at using information technology and learning the proper way to process information.
◇ A vision for the future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.
◇ Moral integrity	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.
◇ Independent thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.
◇ A cheerful attitude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.
◇ A spirit of teamwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.
◇ A sense of aesthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.

#### Course Schedule

Week	Date	Subject/Topics	Note
1	106/09/18 ~ 106/09/24	Basic Concepts in Energy Economics	
2	106/09/25 ~ 106/10/01	Traditional Energy: oil	
3	106/10/02 ~ 106/10/08	Traditional Energy: coal	
4	106/10/09 ~ 106/10/15	Traditional Energy: gas and world energy use	
5	106/10/16 ~ 106/10/22	Electricity: thermal energy	
6	106/10/23 ~ 106/10/29	Electricity: nuclear	
7	106/10/30 ~ 106/11/05	New and Renewable Energy: wind	
8	106/11/06 ~ 106/11/12	New and Renewable Energy: solar	
9	106/11/13 ~ 106/11/19	New and Renewable Energy: biomass	
10	106/11/20 ~ 106/11/26	Mid-term Exam	
11	106/11/27 ~ 106/12/03	New and Renewable Energy: biomass	
12	106/12/04 ~ 106/12/10	New and Renewable Energy: ocean energy and others	

13	106/12/11 ~ 106/12/17	Energy and Environment: energy and CO2 emission	
14	106/12/18 ~ 106/12/24	Energy and Environment: ETS, CDM and JI	
15	106/12/25 ~ 106/12/31	Energy and Environment: climate change	
16	107/01/01 ~ 107/01/07	Energy Policy	
17	107/01/08 ~ 107/01/14	Energy Security	
18	107/01/15 ~ 107/01/21	Final Exam	
Requirement			
Teaching Facility	Computer		
Textbook(s)			
Reference(s)	Papers from Journals, e.g. Energy Journal, Energy Economics, Energy Policy, Energy,... etc.		
Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 20.0 %    ◆ Mark of Usual :        %    ◆ Midterm Exam : 40.0 % ◆ Final Exam : 40.0 % ◆ Other < > :        %		
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> . <b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b>		