

Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	RENEWABLE ENERGY MANAGEMENT	Instructor	TRAN, HUU KHOA
Course Class	TLMXM1A MASTER'S PROGRAM, DEPARTMENT OF INFORMATION MANAGEMENT, 1A	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Selective ◆ One Semester
Relevance to SDGs	SDG7 Affordable and clean energy		
D e p a r t m e n t a l A i m o f E d u c a t i o n			
Devoting to the integration and research of information technology and business management knowledge, and cultivating, for the society, middle and higher level managers with both information capabilities and modern management skills.			
S u b j e c t D e p a r t m e n t a l c o r e c o m p e t e n c e s			
<ul style="list-style-type: none"> A. Use of modern management knowledge.(ratio:40.00) D. Integration of information technology and business management.(ratio:30.00) E. Research and innovation.(ratio:10.00) F. Theory and applications of data analysis.(ratio:10.00) G. Information and communication security management.(ratio:10.00) 			
S u b j e c t S c h o o l w i d e e s s e n t i a l v i r t u e s			
<ul style="list-style-type: none"> 1. A global perspective. (ratio:50.00) 2. Information literacy. (ratio:20.00) 3. A vision for the future. (ratio:30.00) 			

Course Introduction	In this course, Management of Renewable Energy is introduced. You will learn about the energy models, such as: Solar, Wind, Tidal model. The student will understand how these models work and the methodology to manage energy.
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The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

- I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.
- II. Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.
- III. Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	Obtain knowledge of different types of renewable energy sources, and manage its information.	Cognitive
2	Identify the locations where opportunities exist for tapping renewable energy sources.	Psychomotor
3	Keeping abreast of the developments and applications of information communication and technology.	Affective

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ADEFG	123	Lecture, Discussion	Study Assignments, Discussion(including classroom and online), Report(including oral and written)
2	ADEFG	123	Lecture, Discussion	Study Assignments, Discussion(including classroom and online), Report(including oral and written)

3	ADEFG	123	Lecture, Discussion	Study Assignments, Discussion(including classroom and online), Report(including oral and written)
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Course Schedule

Week	Date	Course Contents	Note
1	111/02/21 ~ 111/02/25	Energy, the introduction	
2	111/02/28 ~ 111/03/04	Energy Conversion	
3	111/03/07 ~ 111/03/11	Solar Energy	
4	111/03/14 ~ 111/03/18	Solar Concentration	
5	111/03/21 ~ 111/03/25	PV Solar Systems	
6	111/03/28 ~ 111/04/01	Wind Energy	
7	111/04/04 ~ 111/04/08	Tidal Energy	
8	111/04/11 ~ 111/04/15	Geothermal Energy	
9	111/04/18 ~ 111/04/22	Biomass	
10	111/04/25 ~ 111/04/29	Midterm Exam Week	
11	111/05/02 ~ 111/05/06	Hydroelectric	
12	111/05/09 ~ 111/05/13	Hydrogen Fuel Cell	
13	111/05/16 ~ 111/05/20	Energy Price and Supply	
14	111/05/23 ~ 111/05/27	Energy Efficiency and Economic	
15	111/05/30 ~ 111/06/03	Energy Policy and Security	
16	111/06/06 ~ 111/06/10	Energy Management	
17	111/06/13 ~ 111/06/17	Project Presentation	
18	111/06/20 ~ 111/06/24	Final Exam Week	

Requirement	

Teaching Facility	Computer, Projector
Textbooks and Teaching Materials	- Handouts
References	Selected Journal Papers, resources.
Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	<p>◆ Attendance : 10.0 % ◆ Mark of Usual : % ◆ Midterm Exam : 20.0 %</p> <p>◆ Final Exam : %</p> <p>◆ Other (Final Presentation) : 70.0 %</p>
Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php.</p> <p>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>