Tamkang University Academic Year 107, 1st Semester Course Syllabus

Course Title	SUSTAINABLE TRANSPORTATION	Instructor	HSIN-PING HSU			
Course Class	TLTXB1P DEPARTMENT OF TRANSPORTATION MANAGEMENT, 1P	Details	 Selective One Semester 2 Credits 			
	Departmental Aim of Education					
I. To obt	ain professional transportation knowledge.					
П. To fam	iliarize with execution of transportation practices.					
III. To mas	ster oral expression and teamwork.					
IV. To cap	ture basic skills of system analysis.					
V. To emp	phasize professional transportation ethics.					
	Departmental core compet	ences				
A. To obtai	n basic knowledge of transportation management.					
B. To famil	iarize with practice-oriented professional skills.					
C. To be ca	pable of oral expression and teamwork.					
D. To obtai	n basic ability of system analysis.					
E. To build	E. To build transportation ethics, care for humanity, and global visions.					
	The purpose of the course is to familiarize students with the basic concepts of					
	sustainable development, the key issues in sustainable transpondent events among environmental protection, social equity, and economic					
among environmental protection, social equity, and economic prosperity), various strategies for promoting sustainable transportation worldwide, and current status						
Course Introduction	and future challenges of sustainable transportation in Taiwan. Students will					
	acquire relevant knowledge through lectures, examinations, discussions, and					
	assignments.					

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 :	Pl-Imitation,	P2-Mechanism,	P3-Independent Operation,
	P4-Linked Operati	on, P5-Automation,	P6-Origination
(iii) Affective Domain :	Al-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			Departmental core competences		
1	o familiarize students with the basic concepts, key issues, various strategies, and future challenges of sustainable transportation.			ABDE		
	Teaching Objectives, Teaching Methods and Assessment					
No.	Teaching Objectives	Teaching Methods		Assessment		
1	To familiarize students with the basic concepts, key issues, various strategies, and future challenges of sustainable transportation.	Lecture, Discussion	Written to Participat	est, Report, ion		

	Т	his course has been designed to	cultivate the following essential qualities	in TKU students	
Essential Qualities of TKU Students		Qualities of TKU Students	Descriptio	on	
A global perspective		pective	Helping students develop a broader perspective from which to understand international affairs and global development.		
\diamondsuit Information literacy		eracy	Becoming adept at using information technology and learning the proper way to process information.		
A vision for the future		e 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		y	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.		
◆ Independent thinking		hinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.		
\bigcirc A cheerful attitude and healthy lifestyle		tude 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.		
\diamondsuit A spirit of teamwork and dedication		nwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.		
\diamondsuit A sense of aesthetic appreciation		thetic 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		Note	
1	107/09/10~ 107/09/16	Course Introduction			
2	107/09/17~ 107/09/23	Basic Concepts of Sustainable Development			
3	107/09/24~ 107/09/30	Key Issues in Sustainable Transportation			
4	107/10/01 ~ 107/10/07	Sustainable Transportation and Environmental Protection I			
5	107/10/08~ 107/10/14	Sustainable Transportation and Environmental Protection II			
6	107/10/15~ 107/10/21	Sustainable Transportation and Social Equity I			
7	107/10/22~ 107/10/28	Sustainable Transportation and Social Equity II			
8	107/10/29~ 107/11/04	Sustainable Transportation and Economic Prosperity I			
9	107/11/05~ 107/11/11	Sustainable Transportation and Economic Prosperity II			
10	107/11/12~ 107/11/18	Midterm Exam Week			
11	107/11/19~ 107/11/25	Solutions: Transportation Planning I			
12	107/11/26~ 107/12/02	Solutions: Transportation Planning II			

13	107/12/03 ~ 107/12/09	Solutions: Land Use Planning I		
14	107/12/10~ 107/12/16	Solutions: Land Use Planning II		
15	107/12/17 ~ 107/12/23	Solutions: New Energy Technology		
16	107/12/24~ 107/12/30	Solutions: Social Policy	Assignment Due: Dec. 27	
17	107/12/31~ 108/01/06	In-Class Final Examination (on Jan. 3)		
18	108/01/07~ 108/01/13	Final Exam Week		
Re	Requirement			
Теа	Teaching Facility Computer, Projector			
T	Textbook(s)			
Reference(s)		 Black, W. R. (2010). Sustainable Transportation: Problems and Solutions. The Guilford Press. Tumlin, J. (2012). Sustainable Transportation Planning: Tools for Creating Vibrant, Healthy, and Resilient Communities. Wiley. Schiller, P. L. and Kenworthy, J. R. (2017). An Introduction to Sustainable Transportation: Policy, Planning and Implementation. Routledge. 		
	Number of Assignment(s)1(Filled in by assignment instructor only)			
	Grading Policy ◆ Attendance : 10.0 % ◆ Mark of Usual : 20.0 % ◆ Midterm Exam : 35.0 % ◆ Final Exam : 35.0 % ◆ Other < > : %			
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Page:4/4 2018/7/24 21:12:20