Tamkang University Academic Year 108, 1st Semester Course Syllabus

Course Title	TRANSPORTATION ENGINEERING	Instructor	CHIH-LIN CHUNG
Course Class	TLTXB2B DEPARTMENT OF TRANSPORTATION MANAGEMENT, 2B	Details	◆ General Course◆ Required◆ One Semester

Departmental Aim of Education

- I. To obtain professional transportation knowledge.
- $\ensuremath{\mathbb{I}}$. To familiarize with execution of transportation practices.
- Ⅲ. To master oral expression and teamwork.
- IV. To capture basic skills of system analysis.
- V. To emphasize professional transportation ethics.

Subject Departmental core competences

- A. To obtain basic knowledge of transportation management.(ratio:80.00)
- D. To obtain basic ability of system analysis.(ratio:20.00)

Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:10.00)
- 2. Information literacy. (ratio:25.00)
- 3. A vision for the future. (ratio:5.00)
- 4. Moral integrity. (ratio:5.00)
- 5. Independent thinking. (ratio:30.00)
- 7. A spirit of teamwork and dedication. (ratio:20.00)
- 8. A sense of aesthetic appreciation. (ratio:5.00)

	Course roduction	guidelii Highwa	nes, covering four parts by Engineering, 3) Railw	ortation engineering-related concepts an s as 1) Transportation Engineering Introdo vay Engineering, and 4) Airport Engineerin graduates in their sophomore year.	uction, 2)			
	The	correspo		course's instructional objectives and the nd psychomotor objectives.	cognitive, affective,			
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.A	ffective : Emp	ohasis upo	on the study of various	kinds of knowledge in the course's appear	al,			
III.P			de, conviction, values, s upon the study of the	etc. e course's physical activity and technical				
	-	nipulation	•	, , ,				
No.		Teaching Objectives objective methods						
	Students cou	ould understand transportation engineering at an Cognitive ary level.						
2	Students cou	nts could discover related issues in daily life. Cognitive						
	Classroom k procedures.	oom knowledge could match practical planning and design Cognitive dures.						
	The	correspond	ences of teaching objectives	s : core competences, essential virtues, teaching m	ethods, and assessment			
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment			
1	AD		12	Lecture, Discussion	Testing, Report(including oral and written)			
2	AD		34	Lecture, Discussion	Testing, Study Assignments			
3	AD		578	Lecture, Discussion	Testing, Discussion(including classroom and online)			
	Course Schedule							
Week	Date		Cou	urse Contents	Note			
1	108/09/09 ~	Introduction						

108/09/15

2	108/09/16 ~ 108/09/22	Decision Making		
3	108/09/23 ~ 108/09/29	Geography and Network		
4	108/09/30 ~ 108/10/06	Project Evaluation		
5	108/10/07 ~ 108/10/13	Highway Engineering Introduction		
6	108/10/14 ~ 108/10/20	Grade		
7	108/10/21 ~ 108/10/27	Sight Distance		
8	108/10/28 ~ 108/11/03	Horizontal Curve		
9	108/11/04 ~ 108/11/10	Vertical Curve		
10	108/11/11 ~ 108/11/17	Midterm Exam Week		
11	108/11/18 ~ 108/11/24	Railway Introduction, Alignment, and Train		
12	108/11/25 ~ 108/12/01	Track, Turnout, Switch, and Siding		
13	108/12/02 ~ 108/12/08	Rail Station and Depot		
14	108/12/09 ~ 108/12/15	Airport Introduction and Master Plan		
15	108/12/16 ~ 108/12/22	Runway and Taxiway Planning		
16	108/12/23 ~ 108/12/29	Airport Terminal Planning		
17	108/12/30 ~ 109/01/05	Airport Ground Transportation		
18	109/01/06 ~ 109/01/12	Final Exam Week (Date:109/1/3-109/1/9)		
Requirement		This English Transportation Engineering class is for those who want to improve English listening, no matter from Calss 2A or 2B. If you don't like English, please take 2A's Chinese Transportation Engineering class.		
Tea	ching Facility	Computer, Projector		
Textbooks and Teaching Materials		1. Lecture notes. 2. 周義華, 運輸工程, 華泰文化出版. 3. Fundamentals of Transportation, Wikibooks (http://en.wikibooks.org/wiki/Fundamentals_of_Transportation)		
R	eferences	Internet data and publications.		

Number of Assignment(s)	4 (Filled in by assignment instructor only)	
Grading Policy	 ↑ Attendance: 12.0 %	
Note	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 . **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.	

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