## Tamkang University Academic Year 109, 1st Semester Course Syllabus

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

## Departmental Aim of Education

- I. To obtain professional transportation knowledge.
- $\ensuremath{\mathbb{I}}$ . To familiarize with execution of transportation practices.
- ■. 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	guideli Highwa	nes, covering four parts by Engineering, 3) Railw	ortation engineering-related concepts an s as 1) Transportation Engineering Introdu vay Engineering, and 4) Airport Engineerin raduates in their sophomore year.	uction, 2)		
	The	correspo		course's instructional objectives and the ad 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.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					
	Students cou	ould understand transportation engineering at an Cognitive y level.					
2	Students cou	s could discover related issues in daily life.  Cognitive					
	Classroom k procedures.	m knowledge could match practical planning and design  res.  Cognitive					
	The	correspond	ences of teaching objectives	s : core competences, essential virtues, teaching me	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	irse Contents	Note		
1	109/09/14 ~	Introduction					

109/09/20

2	109/09/21 ~ 109/09/27	Decision Making		
3	109/09/28 ~ 109/10/04	Geography and Network		
4	109/10/05 ~ 109/10/11	Project Evaluation		
5	109/10/12 ~ 109/10/18	Highway Engineering Introduction		
6	109/10/19 ~ 109/10/25	Grade		
7	109/10/26 ~ 109/11/01	Sight Distance		
8	109/11/02 ~ 109/11/08	Horizontal Curve		
9	109/11/09 ~ 109/11/15	Vertical Curve		
10	109/11/16 ~ 109/11/22	Midterm Exam Week		
11	109/11/23 ~ 109/11/29	Railway Introduction, Alignment, and Train		
12	109/11/30 ~ 109/12/06	Track, Turnout, Switch, and Siding		
13	109/12/07 ~ 109/12/13	Rail Station and Depot		
14	109/12/14 ~ 109/12/20	Airport Introduction and Master Plan		
15	109/12/21 ~ 109/12/27	Runway and Taxiway Planning		
16	109/12/28 ~ 110/01/03	Airport Terminal Planning		
17	110/01/04 ~ 110/01/10	Airport Ground Transportation		
18	110/01/11 ~ 110/01/17	Final Exam Week		
Re	quirement	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	References	Internet data and publications.		

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

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