Tamkang University Academic Year 110, 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
Relevance to SDGs	SDG4 Quality education		

Departmental Aim of Education

- I . To obtain professional transportation knowledge.
- $\ensuremath{\mathbb{I}}$. To familiarize with execution of transportation practices.
- ${\rm I\hspace{-.1em}I\hspace{-.1em}I}$. 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 Introdu vay Engineering, and 4) Airport Engineerin raduates in their sophomore year.	uction, 2)			
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 Ol	bjectives	objective methods			
	Students cou	ould understand transportation engineering at an Cognitive ry level.						
2	Students cou	s could discover related issues in daily life. Cognitive						
	Classroom k procedures.	sroom knowledge could match practical planning and design Cognitive redures.						
	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)			
	T	1		Course Schedule	T			
Week	Date		Cou	irse Contents	Note			
1	110/09/22 ~	10/09/22~ Introduction						

110/09/28

2	110/09/29 ~ 110/10/05	Decision Making			
3	110/10/06 ~ 110/10/12	Geography and Network (No Class on 10/11)			
4	110/10/13 ~ 110/10/19	Project Evaluation			
5	110/10/20 ~ 110/10/26	Highway Engineering Introduction			
6	110/10/27 ~ 110/11/02	Grade			
7	110/11/03 ~ 110/11/09	Sight Distance			
8	110/11/10~	Horizontal Curve			
9	110/11/17 ~ 110/11/23	Midterm Exam Week			
10	110/11/24 ~ 110/11/30	Vertical Curve			
11	110/12/01 ~ 110/12/07	Railway Introduction, Alignment, and Train			
12	110/12/08 ~ 110/12/14	Track, Turnout, Switch, and Siding			
13	110/12/15 ~ 110/12/21	Rail Station and Depot			
14	110/12/22 ~ 110/12/28	Airport Introduction and Master Plan			
15	110/12/29 ~ 111/01/04	Runway and Taxiway Planning			
16	111/01/05 ~ 111/01/11	Airport Terminal Planning			
17	111/01/12 ~ 111/01/18	Airport Ground Transportation			
18	111/01/19 ~ 111/01/25	Final Exam Week			
Re	equirement	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	aching Facility	Computer, Projector			
	ooks and ing 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)			
F	References	Internet data and publications.			
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Number of Assignment(s)	4 (Filled in by assignment instructor only)		
Grading Policy	 Attendance: 12.0 % ◆ Mark of Usual: 72.0 % ◆ Midterm Exam: % Final Exam: % Other ⟨mini tasks⟩: 16.0 % 		
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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