Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	TRANSPORTATION ENGINEERING	Instructor	CHIH-LIN CHUNG
Course Class	TLTXB2B DEPARTMENT OF TRANSPORTATION MANAGEMENT, 2B	Details	General CourseRequiredOne Semester
Relevance to SDGs	SDG9 Industry, Innovation, and Infrastructure SDG11 Sustainable cities and communities		

Departmental Aim of Education

- I. To obtain professional transportation knowledge.
- II. 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:50.00)
- B. To familiarize with practice-oriented professional skills.(ratio:10.00)
- C. To be capable of oral expression and teamwork.(ratio:10.00)
- D. To obtain basic ability of system analysis.(ratio:20.00)
- E. To build transportation ethics, care for humanity, and global visions.(ratio:10.00)

Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:10.00)
- 2. Information literacy. (ratio:20.00)
- 3. A vision for the future. (ratio:5.00)
- 4. Moral integrity. (ratio:5.00)
- 5. Independent thinking. (ratio:30.00)
- 6. A cheerful attitude and healthy lifestyle. (ratio:5.00)
- 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 ay Engineering, 3) Railw	ortation engineering-related concepts and as 1) Transportation Engineering Introduced as 1) Transportation Engineering Introduced Engineering, and 4) Airport Engineering 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 Ob	objective methods			
	Students cou	could understand transportation engineering at an Cognitive bry level.					
2	Students cou	dents could discover related issues in daily life. Cognitive					
	Classroom k procedures.	assroom knowledge could match practical planning and design Cognitive ocedures.					
	The	correspond	lences of teaching objectives	s : core competences, essential virtues, teaching me	ethods, and assessment		
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment		
1	А		123	Lecture, Discussion	Testing, Report(including oral and written)		
2	ВС		45	Lecture, Discussion	Testing, Study Assignments		
3	DE		678	Lecture, Discussion	Testing, Discussion(including classroom and online)		
	Course Schedule						
Week	Date	Date Course Contents Note					
1	111/09/05 ~	705~ Transportation Engineering Introduction					

111/09/11

2	111/09/12 ~ 111/09/18	Decision Making		
3	111/09/19 ~ 111/09/25	Geography and Network		
4	111/09/26 ~ 111/10/02	Project Evaluation		
5	111/10/03 ~ 111/10/09	Highway Engineering Introduction		
6	111/10/10 ~ 111/10/16	Grade		
7	111/10/17 ~ 111/10/23	Sight Distance		
8	111/10/24 ~ 111/10/30	Horizontal Curve		
9	111/10/31 ~ 111/11/06	Vertical Curve		
10	111/11/07 ~ 111/11/13	Midterm Exam Week		
11	111/11/14 ~ 111/11/20	Railway Introduction, Alignment, and Train		
12	111/11/21 ~ 111/11/27	Track, Turnout, Switch, and Siding		
13	111/11/28 ~ 111/12/04	Rail Station and Depot		
14	111/12/05 ~ 111/12/11	Airport Introduction and Master Plan		
15	111/12/12 ~ 111/12/18	Runway and Taxiway Planning		
16	111/12/19 ~ 111/12/25	Airport Terminal Planning		
17	111/12/26 ~ 112/01/01	Airport Ground Transportation		
18	112/01/02 ~ 112/01/08	Final Exam Week		
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		
	ooks and ng Materials	Lecture notes. 2. Fundamentals of Transportation, Wikibooks (http://en.wikibooks.org/wiki/Fundamentals_of_Transportation)		
R	deferences	Internet data and publications.		
1				

Number of Assignment(s)	4 (Filled in by assignment instructor only)
Grading Policy	 ↑ Attendance: %
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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