Tamkang University Academic Year 113, 1st Semester Course Syllabus

Course Title	SMART LOGISTICS OPERATION	Instructor	CHIH-LIN CHUNG
Course Class	TLTXB3P DEPARTMENT OF TRANSPORTATION MANAGEMENT, 3P	Details	◆ Blended Course ◆ Selective ◆ One Semester ◆ 2 Credits
Relevance to SDGs	SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

Ⅰ. To obtain professional transportation knowledge.

Ⅱ. 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:40.00)

B. To familiarize with practice-oriented professional skills.(ratio:10.00)

C. To be capable of oral expression and teamwork.(ratio:30.00)

D. To obtain basic ability of system analysis.(ratio:10.00)

E. To build transportation ethics, care for humanity, and global visions.(ratio:10.00)

Subject Schoolwide essential virtues

1. A global perspective. (ratio:15.00)

2. Information literacy. (ratio:20.00)

3. A vision for the future. (ratio:10.00)

4. Moral integrity. (ratio:5.00)

5. Independent thinking. (ratio:25.00)

6. A cheerful attitude and healthy lifestyle. (ratio:5.00)

7. A spirit of teamwork and dedication. (ratio:15.00)

8. A sense of aesthetic appreciation. (ratio:5.00)

Course Introduction	This course offers a fundamental understanding of the latest smart logistics development operations. Five modules will be covered, including 1. smart city, 2. introduction to intelligent transportation systems, 3. commercial vehicle operation, 4. smart logistics, and 5. connected/autonomous vehicles.

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 Objectives	objective methods
1	Applications and case studies of smart cities and transportation.	Cognitive
2	Operational assessment of CVO, logistics, and autonomous vehicles.	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	AB	1234	Lecture, Discussion	Study Assignments, Discussion(including classroom and online), Report(including oral and written)
2	CDE	5678	Lecture, Discussion	Study Assignments, Discussion(including classroom and online), Report(including oral and written)

Course Schedule

Note for Blended Course : When utilizing weekly digital instruction, please fill in "Online Asynchronous Instruction".

Week	Date	Course Contents	Note
1	113/09/09 ~ 113/09/15	Introduction	

2	113/09/16 ~ 113/09/22	Smart City-1	
3	113/09/23 ~ 113/09/29	Smart City-2	
4	113/09/30 ~ 113/10/06	Typhoon Break	
5	113/10/07 ~ 113/10/13	National Day (No Class)	
6	113/10/14 ~ 113/10/20	Smart City (online @iClass)	Online Asynchronous Instruction
7	113/10/21 ~ 113/10/27	Smart City Case Study	
8	113/10/28 ~ 113/11/03	Intelligent Transportation Systems-1	
9	113/11/04 ~ 113/11/10	Intelligent Transportation Systems-2 (online @iClass)	Online Asyncrohous Instruction
10	113/11/11 ~ 113/11/17	Intelligent Transportation Systems Case Study	
11	113/11/18 ~ 113/11/24	Supply Chain	
12	113/11/25 ~ 113/12/01	Smart Logistics	
13	113/12/02 ~ 113/12/08	Freight and CVO (online @iClass)	Online Asyncrohous Instruction
14	113/12/09 ~ 113/12/15	Field Trip (To be decided) or Dedicated Short Range Communication	
15	113/12/16 ~ 113/12/22	Connected Vehicles	
16	113/12/23 ~ 113/12/29	Radio Frequency Identification (online @iClass)	Online Asynchronous Instruction
17	113/12/30 ~ 114/01/05	Final Exam Week	
18	114/01/06 ~ 114/01/12	Flex week (online learning or field trip activities to be arranged)	

Key capabilities	
Interdisciplinary	
Distinctive teaching	

Course Content	Smart Logistics
Requirement	
Textbooks and Teaching Materials	Self-made teaching materials:Presentations
References	FHWA, US DOT research data exchange: https://www.its-rde.net/
Grading Policy	◆ Attendance： 10.0 % ◆ Mark of Usual： % ◆ Midterm Exam： 40.0 % ◆ Final Exam： 50.0 % ◆ Other〈 〉： %
Note	1. This syllabus may be uploaded at the website of the Course Syllabus Management System at https://info.ais.tku.edu.tw/csp or through the link of the Course Syllabus Upload posted on the home page of the TKU Office of Academic Affairs http://www.acad.tku.edu.tw/CS/main.php 2. According to the Implementation regulations of distance education for junior college and above are prescribed pursuant to Article 2, "The distance learning course referred to in these Measures refers to more than one-half of the teaching hours in each subject." 3. According to the regulations of Tamkang University Enforcement Rules for digital teaching, Paragraph 2 and Article 3, the distance learning course of our school must be "The course of digital teaching with distance learning platform or synchronous video system in our school. Teaching Hours include course lectures, teacher-student interaction discussions, quizzes and other learning activities." 4. If there are any temporary course changes (including time changes and classroom changes of distance learning courses, blended courses), please make out an application according to regulations to the Office of Academic Affairs. **※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.**