Tamkang University Academic Year 111, 2nd Semester Course Syllabus

Course Title	OPERATIONS RESEARCH	Instructor	HSU-HUA LEE
Course Class	TLGXB2B DEPARTMENT OF MANAGEMENT SCIENCES, 2B	Details	General CourseRequiredOne Semester
Relevance to SDGs	SDG3 Good health and well-being for people		

Departmental Aim of Education

- I. Become proficient at Management Sciences skills.
- II. Learn about self-development and personal growth.
- ${\rm I\hspace{-.1em}I\hspace{-.1em}I}$. Make connections between theory and practice.
- IV. Enhance team cooperation and communication.
- V. Cultivate analytical and decision making skills.
- VI. Value the sustainable operation of organizations.

Subject Departmental core competences

- A. Business management ability.(ratio:30.00)
- B. Marketing and logistic management ability.(ratio:30.00)
- C. Statistical analysis and Decision Making Ability.(ratio:20.00)
- D. Finance and economics analysis ability.(ratio:5.00)
- E. Teamwork ability.(ratio:5.00)
- F. Self-management ability.(ratio:5.00)
- G. Ethics application ability.(ratio:5.00)

Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:5.00)
- 2. Information literacy. (ratio:30.00)
- 3. A vision for the future. (ratio:30.00)
- 4. Moral integrity. (ratio:5.00)
- 5. Independent thinking. (ratio:15.00)

7. A spirit of teamwork and dedication. (ratio:5.00) 8. A sense of aesthetic appreciation. (ratio:5.00) To learn the theory and the practice of operarions research in the relevant programmings. Course Introduction 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. **Teaching Objectives** objective methods No. To learn the model development and optimization about operations Cognitive research The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment **Teaching Methods** Core Competences **Essential Virtues** Assessment No Testing, Study Lecture, Discussion, Practicum 1 **ABCDEFG** 12345678 Assignments, Discussion(including classroom and online), **Activity Participation** Course Schedule **Course Contents** Week Date Note 112/02/13 ~ The introduction of operations research 1 112/02/19 112/02/20 ~ The matrix concept and linear alegebra 2 112/02/26

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

3	112/02/27 ~ 112/03/05	The practice of operations research (1)		
4	112/03/06 ~ 112/03/12	The practice of operations research (2)		
5	112/03/13 ~ 112/03/19	The introduction of simplex method		
6	112/03/20 ~ 112/03/26	The simplex method (1)		
7	112/03/27 ~ 112/04/02	The simplex method (2)		
8	112/04/03 ~ 112/04/09	The simplex method (3)		
9	112/04/10 ~ 112/04/16	visit company		
10	112/04/17 ~ 112/04/23	Midterm Exam Week		
11	112/04/24 ~ 112/04/30	Optimization (1)		
12	112/05/01 ~ 112/05/07	Optimization (2)		
13	112/05/08 ~ 112/05/14	Optimization (3) or join management sciences conference on May 16 at Tamkang U.		
14	112/05/15 ~ 112/05/21	Optimization in operations		
15	112/05/22 ~ 112/05/28	The model development of operations research (1)		
16	112/05/29 ~ 112/06/04	The model development of operations research (2)		
17	112/06/05 ~ 112/06/11	Visit company		
18	112/06/12 ~ 112/06/18	Final Exam Week		
Re	quirement	Pay attention to the attendance and learning, and complete the assignments		
Tea	ching Facility	Computer, Projector		
	oks and ng Materials	Operations Research		
R	deferences	Operations research related papers and software		
Number of Assignment(s)		(Filled in by assignment instructor only)		
Grading Policy		 ↑ Attendance: 15.0 %		

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 .
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