## Annex 2

## **«Course Design Table»**

Course Title	Operations Research	College		School of Mechanical and Electronic Engineering		
Course Director	Cunrong Li	Те	I		13797026270	
Chapter	Topics of D	iscussion Content & Duration (ho		ontent & tion (hou	ırs)	Video Type
	1.1 Introduction to optimization		1	1.5		Seminar
	1.2 Vector Spaces & Convexity		2	1.5		Seminar
Chapter 1	1.3 Intro to Linear programming		3	1.5		Seminar
(Day 1)	1.4 Graphical Solution		4	1.5		Seminar
	1.5 Simplex Method		5	2.0		Seminar
	1.6 Maximization and Minimization		6	2.0		Seminar
	2.1 Matrix version of simplex method		7	2.0		Seminar
Chapter 2	2.2 Matrix approach of simplex meth		8	2.0		Seminar
(Day 2)	2.3 Post-optimality analysis		9	1.5		Seminar
	2.4 Sensitivity analysis		10	1.5		Seminar
	3.1 Function of single variable		11	1.5		Seminar
Chapter 3	3.2 Function of single variable		12	1.5		Seminar
(Day 3)	3.3 Function of several variable		13	1.5		Seminar
	3.4 Function of several variable		14	1.5		Seminar
Chapter 4 (Day 4)	4.1 Constrained Optimization		15	1.5		Seminar
	4.2 Constraint Direct Search		16	1.5		Seminar
	4.3 Direction-based method		17	1.5		Seminar
	4.4 Direction-based method		18	1.5		Seminar
Chapter 5 (Day 5)	5.1 Mixed-Integer Programming		19	2.0		Seminar
	5.2 Integer Programming		20	2.0		Seminar
	5.3 Computation Complexity		21	1.5		Seminar
	5.4 Measure of Performances		22	1.5		Seminar
Sub-total			-	36 ho	urs	

## ■Note: Request of Resource Sharing Courses:

- 1. <Video Type>: You can choice form Appearance/Non-Appearance/Seminar.
  - •Appearance: You can explain the lesson through recorded video.
  - •Non-appearance: Teachers needn't be recorded video when explain the lesson.
  - •Seminar: Teachers and students to discuss the lesson together.
- 2.<**Duration**>: Video length is recommended not to exceed 20 minutes.