Course Book

Ministry of Higher Education and Scientific Research

زانکۆی پۆلیتەکنیکی هەولێر
ERBIL POLYTECHNIC UNIVERSITY

College: Erbil Technical of Management

Course Title: Quantitative Research

Academic Year: semester 4

Department: Business Administration

Stage: 2

Course system: Annual ☐ **Semester** ☑

Course type: Specialty ☐ **Supportive** ☑ **General** ☐

Number of weekly theoretical hours:

Number of weekly practical hours: 3 hours

Total number of weekly hours: 4

Credit hours: 4 hours

Instructor information:	
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Certificate	Phd
Academic title	assistant lecturer
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Learning resources: • **Theory**: • **Laboratory practice**: • **Clinical practice**:	

• **General:**
Teaching and learning strategies: • **Theory:** • **Laboratory practice**: • **Clinical practice:**

1. Course Calandar/Practical Part:

Week/Unit	Outline	No. of Hours
1.	Linear Programing Problems	**12 hours**
2.	Graphical method	**12 hours**
3.	Simplex method	**12 hours**
4.	Two-stage style	**10 hours**
5.	The Corresponding Model Method	**12 hours**
6.	Big M Technique	**12 hours**
7.	Transportation Problems 1- North- West corner Method 3- Least Cost Method 2- Vogel method 4- Assignment 5- A winding path	**12 hours**
Total		**90 hours**

Examples of exams:

Theoretical:

Type of question	Example
Practical	**Example / Find the optimal solution of the following problem** **Max Z = 9x1 + 7X2** **subject to :** **10x1 + 5x2 ≤50** **6x1 + 6x2 ≤ 36** **2x1 + 10x2 ≤ 20** **x1 , x2 ≥ 0**