Operations Management

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Class time	Morning

Course Description: This course provides a foundation of the concepts, principles, and managerial issues of the operations function in manufacturing and service organizations. Emphasis is on the planning, scheduling, and controlling of operations, including the application of quantitative methods to the solution of strategic, tactical, and operational level problems.

Materials/Text:

- Lecture Notes will be provided.
- Optional reference book: Operations Management – Sustainability and Supply Chain Management by Heizer, Render, and Munson, 14th edition, Pearson Education.

Requirements:

It is recommended (NOT required) that students have a prior understanding of the principles of management before taking this course

Schedule:

Week 1 – Day 1 • Course Orientation	Week 1 – Day 2 • Operations and Productivity	Week 1 – Day 3 • Operations Strategy in a Global Environments	Week 1 – Day 4 • Operations Strategy in a Global Environments
Week 2 – Day 1 • Project Management	Week 2 – Day 2 • Forecasting	Week 2 – Day 3 • Quality Management	Week 2 – Day 4 • Midterm Exam • Inventory Management
Week 3 – Day 1 • Inventory Management	Week 3 – Day 2 • Inventory Management	Week 3 – Day 3 • Supply Chain Management	Week 3 – Day 4 • Supply Chain Management
Week 4 – Day 1 • Supply Chain Management (Beer Distribution Game)	Week 4 – Day 2 • Field Trip	Week 4 – Day 3 • AI and Innovation	Week 4 – Day 4 • Final Exam

Assignments:

1. Class Participation & Homework: 50%
2. Midterm Exam: 25%
3. Final Exam: 25%

Evaluation:

- Class Participation & Homework
  - Class activities consist of business simulation games, pop-quizzes, and discussions.
  - The evaluation method may be either performance-based or participation-based.
  - To be eligible for class activities, students must attend the class at the designated time and location.
  - Homework problems will be assigned on a regular basis using the LMS system.

  - Each assignment must be completed by 11:59 PM on its due date.
  - For every day the assignment is late after the assignment is due, 20% will be deducted from the assignment score.
- Examinations
  - The examinations will be closed book open note tests.
  - Each examination consists of multiple choice or multiple answer questions.
  - The final examination focuses on the material covered after the midterm examination.
  - A calculator with a square root function is permitted. However, the use of any device that allows communication and/or data storage, such as smartphones, laptops, and similar devices, is strictly prohibited as a calculator.
  - No questions regarding exam problems are allowed during the exam. If you think problems have any ambiguities or any faults, write down your assumptions clearly and continue to do your work. If your claims are acceptable, you will get scores.
- Grading Scale

A+	A	B+	B	C+	C	D+	D	F
95 – 100	90 – 94.99	85 – 89.99	80 – 84.99	75 – 79.99	70 – 74.99	65 – 69.99	60 – 64.99	0 – 59.99

Field Trip:

- This course will include a **one-day field trip** to an **AI-enabled logistics center**, a setting well aligned with the course's focus on AI-driven operations. Coordination with the host organization is underway, and details may be adjusted as scheduling is finalized.
- The **field trip plans can be modified at any time**, and the syllabus will state that dates and activities may change depending on circumstances.