

**IM 111 – Industrial Relations**  
**COURSE INFORMATION**

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Course Title: Industrial Relations

Code: IM 111

Contact Hours (hours/week): Lecture – 2 Hrs. Tutorial/Lab– 2+0 Hrs. Credit– 2.

Prerequisite: None

Coordinator: Dr. Mona Fouad

**G R A D I N G**

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Class Performance/Attendance: 10%

Midterm # 1/Assignments – (7<sup>th</sup> Week): 30%

Midterm # 2/Assignments – (12<sup>th</sup> Week): 20%

Final Exam: 40%

**COURSE DESCRIPTION**

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This course identifies the production cycle, the different types of industries, roles of operation manager in industry. Also it identifies cost and break even analysis, decisions concerning mechanization and evaluating alternatives. Forecasting techniques, inventory control and quality control are also covered by the course.

**TEXT BOOK**

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Lecture Notes

**REFERENCE BOOKS**

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Introduction to industrial engineering, W.C.Tuner, J.H. Mize, Ke. Case, Prentice Hall, 1978

History of science and technology, Khalil M. Elawady, Arab Academy for Science & Technology and Maritime Transport

**COURSE AIM**

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To introduce students to the basic knowledge and concepts related to industrialization and work organizations, cost and break even analysis, common forecasting techniques, inventory control and quality control.

**COURSE OBJECTIVES**

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- Identify the different types of industries, production techniques, and management and organization structure.
- Understand the basic concepts of cost calculations and break even analysis.
- Understand common forecasting techniques.

- Understand basic concepts of inventory management.
- Understand basic concepts of quality control.

## COURSE OUTLINE

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*Week Number 1:* Introduction to production systems.

*Week Number 2:* Classification of industries and operation manager responsibilities.

*Week Number 3:* Cost and break even analysis.

*Week Number 4:* Break even analysis (cont.).

*Week Number 5:* Break even analysis (Mechanization and make-buy decisions).

*Week Number 6:* Introduction to forecasting.

*Week Number 7:* Exam # 1

*Week Number 8:* Forecasting based on time series.

*Week Number 9:* Introduction to inventory control, MRP.

*Week Number 10:* Inventory control (Economic order quantity).

*Week Number 11:* Economic production quantity.

*Week Number 12:* Exam # 1

*Week Number 13:* Quality control.

*Week Number 14:* Control charts.

*Week Number 15:* Revision

*Week Number 16:* Final Exam