

Industrial & Management Engineering Department

Industrial Relations

IM 111

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Course Objectives

- Understand the meaning of industrial relations, industrialization and organization structures.
- Identify the health and safety symbols and hazards at work.
- Recognize the difference between Science, Engineering and Technology.
- Recognize the beginning and development of science and the contribution of Arab scientists.

Lecture Plan

- W_1 : Introduction to the course
- W_2 : Production systems
- W_3 : Management and Organization Structures
- W_4 : Production Planning and Control
- W_5 : Industrial Cost Analysis
- W_6 : Break-even Analysis
- W_7 : EXAM

Lecture Plan

W_8 : Accidents at Work: Rules and Regulations

W_9 : Hazard Identification & Prevention –
Personal Safety

W_{10} : Fire Hazards and Prevention

W_{11} : Chemical Hazards and Prevention –
Accident Reporting

W_{12} : EXAM

W_{13} : Science, Engineering and Technology

W_{14} : Quality Control and Labour relations

W_{15} : Scientific and Industrial Revolutions

What is Industrial Relations?

Industrial relations is the management of the relationship between employers and employees



Industrial Action...

...Has a long history, with the first recorded strike taking place in ancient Egypt

Industrial action is now a common sight in most democratic countries



Human Resources (HR)

Employees are commonly referred to as human resources

HR departments manage industrial relations in many firms



Manufacturing vs. Industrialization

- **Manufacturing** is to make or process a raw material into a finished product.
- **Industrialization** is the manufacturing of products with high productivity and low cost with an acceptable level of product quality, considering the external environment surrounding and affecting the work.
- **External environment** may include competition, customer satisfaction, market, market share and marketing.

Industrial and Management Engineering

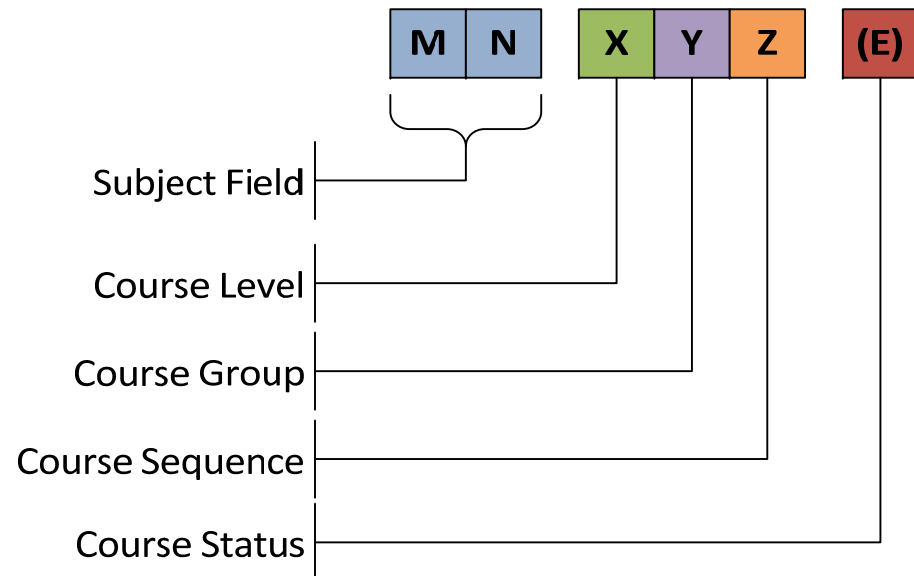
- Industrial and Management Engineering is a broad professional discipline concerned with the, design, control and management of integrated systems and procedures for organizing the resources of production, people, materials, equipment and information to achieve specific objectives.

The Role of Industrial Engineers

- Industrial Engineers (IEs) are those who understand the design, operation, inspection, management and use of systems and the integration of those functions.
- According to the Institute of Industrial Engineers (IIE), IEs combine the abilities of engineers and managers. They draw upon the knowledge of mathematics, physical and technical engineering sciences combined with management behavioural sciences to function as problem solvers, innovators, designers, coordinators, and system integrators.

Course Coding

- The course code consists of five or six alphanumeric digits, MN XYZ (E) depending on the nature of the course; whether it is core or elective.
 - The MN digits: Represent the abbreviations of the subject field.
 - The X digit: Represents the course level or the year at which the course is offered in the plan of study.
 - The Y digit: Represents the course group.
 - The Z digit: Represents the course sequence number within the group.
 - The E Letter: Indicates if a course is core or elective, (E) indicates an elective course.



Subject Fields

- The following abbreviations of subject fields are used in the Degree offered and Graduation Requirements and Course Summary Description sections of this report; and are listed below in an alphabetical order:
 - BA – Basic and Applied Science.
 - CC – Computer Engineering.
 - EE – Electrical Engineering.
 - LH – Language, Humanities and Social Science.
 - IM – Industrial and Management Engineering.
 - ME – Mechanical Engineering.
 - NE – Non-Engineering Courses.

Grades Distribution

- 30% 7th Week Exam (may involve weekly quizzes).
- 20% 12th Week Exam (may involve weekly quizzes).
- 10% Continuous assessment during semester (may involve weekly quizzes).
- 40% Final Exam.

Regulations!

- All students are expected to attend classes regularly and promptly.
- Students who are absent from classes or tutorial periods more than 20% of the time (3 times absence) will face ***forced withdrawal***.
- Any student who does not take a scheduled quiz or exam will receive a grade of ***zero*** for the examination missed.
- ***No*** makeup is allowed under any circumstances.

Class

- Class participation is required.
- Anything that disturbs the class, whether it be a **cell phone** or some other noise-making device, must be **turned off** prior to class time.
- Also, students are to be on time. Please do not attend class if you are **FIVE** or more minutes late. This disrupts the class.
- Also, if you must leave class during class time for an unexpected reason, please **DO NOT RETURN**.