

IM 111 – INDUSTRIAL RELATIONS

CREDIT HOURS

2 Hours

CONTACT HOURS (Hours/week)

Lecture: 1

TEXT BOOK

Turner, Mize, Case & Nazemtz, "Introduction to industrial engineering", Prentice Hall, *latest edition* , lecture notes .

COURSE DESCRIPTION

This course identifies the different types of industries, production techniques, management and organization structure, the different types of hazards and dangers and how to prevent them. Also it clarifies the meaning of production planning and control and cost calculations.

PREREQUISITE:

None

RELATION OF COURSE TO PROGRAM

Required

COURSE INSTRUCTION OUTCOMES

The student will be able to:

- Identify the different types of industries, production techniques, and management and organization structure.
- Understand the meaning of production planning and control and cost calculations.
- Understand and identify the different types of hazards and dangers and to prevent them.

TOPICS COVERED

- Introduction to Course.
- Types of Industries and Production Techniques.
- Management and Organization Structure.
- Production Planning and Control.
- Industrial Cost Estimation Techniques.
- Industrial Economy and Breakeven Analysis.
- Accidents at Work – Rules and Regulations.
- Hazards Classification, Prevention, and Personal Safety.
- Fire Hazards Identification and Prevention.
- Chemical Hazards and Prevention – Accident Reporting.
- Quality Control and Labour Relations.

- Science, Engineering, and Technology.
- Industrial Revolutions.

CONTRIBUTION OF COURSE TO MEET THE REQUIREMENTS OF CRITERION 5:

Professional component Content			
Math and Basic Sciences	Engineering Topics	General Education	Other
	✓		

RELATIONSHIP OF COURSE TO STUDENT OUTCOMES:

Student Outcomes		Course aspects
A	An ability to apply knowledge of mathematics, science, and engineering	a ₁ a ₂
B	An ability to design and conduct experiments, analyze and interpret data.	
C	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economics, environmental, social, political, ethical, health, and safety, manufacturability, and sustainability	
D	An ability to function on multi-disciplinary teams.	
E	An ability to identify, formulate, and solve engineering problems	e ₁ e ₂ e ₃
F	An understanding of professional and ethical responsibility	f ₁ f ₂
G	An ability to communicate effectively	
H	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and social content	h ₁ h ₂ h ₃ h ₄
I	A recognition of the need for, and an ability to engage in life-long learning.	
J	A knowledge of contemporary issues within and outside the electrical engineering profession.	j ₁ j ₂
k	An ability to use the techniques, skills, and modern engineering tools necessary for electrical engineering practice.	