

Faculty of Engineering & Technology
Electrical Installations and Construction Equipment

Information :

Course Code : EPR 344

Level : Undergraduate

Course Hours : 2.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information :

Title	Name	Office hours
Associate Professor	Ahmed Mohamed Abd Elkhaleq Ebid	
Associate Professor	Ahmed Mohamed Abd Elkhaleq Ebid	
Assistant Lecturer	Mohamed Ahmed Reda Abas Ahmed	
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Area Of Study :

By the end of the course the students will be able to:

- Identify the electric power system components.
- Analyze the electric circuits.
- Identify the illuminations schemes.
- Analyze electrical Installations.
- Calculate the illuminations Intensity.
- Calculate the electrical load in buildings.
- Plan and organize the electrical components in buildings.

Description :

Electrical installations: introduction to electric circuits, electrical installations in residential and industrial buildings (lighting, power, telephone, TV, air conditioning, lifts), Acoustic precautions, Alarm systems (Fire, Security, Gas), Electrical design for signaling systems in roads and railways, Electrical print reading. Construction equipments: assessment and selection of construction equipment, earth moving equipment, equipment of concrete production and handling, Steel installations equipment.

Course outcomes :

a. Knowledge and Understanding: :

1 -	a3- Describe the electrical installations.
2 -	a2- Define electric power systems components
3 -	a1- Define basic concepts of electric circuits.

b. Intellectual Skills: :

1 -	b3- Plan and organize the electrical components in buildings.
2 -	b2- Calculate the electric load in buildings
3 -	b1- Analyze of electric circuits

d.General and Transferable Skills: :

1 - d1- Prepare a technical report related to course topics

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction	4	2	2
Electric power systems	12	6	6
Electric circuits	12	6	6
Electrical Installations	20	10	10
project	12	6	6

Teaching And Learning Methodologies :

Lectures

Tutorials

Research

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
1st mid term	15.00		
2nd mid term	15.00		
Assignments	5.00		
final exam	40.00		
Performance & Participation	10.00		
Quizzes	10.00		
Report	5.00		

Course Notes :

-Handout by the lecturer.

Recommended books :

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Periodicals :

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Web Sites :

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