ALBERTIAN INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Course Code: EET 463

Course Name: Illumination Technology

Batch:2020-2024

Semester: Seven

Academic Year:2023-2024

Faculty Name: Annie Bincy C.A

Topic: Aesthetic and Emergency lighting

Innovative Practice: Group Discussion

Date:02-12-2023

Activity Description

Activity Title: Group Discussion on Aesthetic and Emergency Lighting

Duration: 40 minutes

Location: B406

This group discussion aims to explore the importance and design considerations of aesthetic and emergency lighting in architectural and interior spaces. Participants will engage in a collaborative conversation to exchange ideas, share insights, and discuss the impact of lighting on aesthetics, functionality, and safety in diverse environments.

Aims of the activity

Explore how lighting design affects the look and feel of spaces.

Understand the importance of emergency lighting for safety.

Discuss how to balance aesthetics and safety in lighting design

Plan and Execution

Plan:

1. Define objectives for the group discussion on aesthetic and emergency lighting.
2. Identify participants with relevant expertise in lighting design and safety regulations.
3. Develop an agenda with key topics covering aesthetics, safety, and case studies.

Execution:

1. Introduce the importance of aesthetic and emergency lighting in architectural design.

2. Present case studies to illustrate effective lighting solutions for both aesthetics and safety.
3. Facilitate a discussion among participants to exchange insights, challenges, and best practices in integrating aesthetic and emergency lighting elements

Evaluation Method if any

Post-Discussion Survey

1. Create a survey with rating scales and open-ended questions to gather feedback.
2. Assess participants' understanding, satisfaction, and perceived learning outcomes.
3. Analyze responses to improve future discussions on lighting design concepts

Reflective Critique

Benefits:

1. Safety: Emergency lighting ensures visibility during power outages or emergencies, enhancing safety.
2. Aesthetics: Aesthetic lighting enhances the ambiance and visual appeal of spaces, contributing to a pleasant environment.
3. Energy Efficiency: Modern lighting technologies improve energy efficiency, reducing operational costs and environmental impact.

Challenges:

1. Cost: Installation and maintenance of lighting systems can be expensive.
2. Design Integration: Integrating lighting fixtures seamlessly into the architecture can be challenging.
3. Maintenance: Regular upkeep and testing of emergency lighting systems are essential but time-consuming

<u>Likert Analysis Response done for 40 students</u>

Question	**Strongly agree**	**Agree**	**Weakly agree**
1. Would you agree that aesthetic lighting is important for creating a pleasant ambiance in indoor environments?	92	8	
2. Do you believe that emergency lighting is necessary to ensure safety during power outages or emergencies?	88	12	
3. Are you of the opinion	77	23	

that energy-efficient lighting solutions can help reduce operational costs and promote environmental sustainability?			

<u>References if any</u>

- Architectural Lighting Design" by Gary Gordon and James Nuckolls provides insights into lighting design principles and applications in architecture.

- "Emergency Lighting: For Industrial, Commercial and Residential Premises" by Simonate Gathering offers guidance on emergency lighting systems for various settings.

- "Lighting Design Basics" by Mark Karlen and James R. Benya covers fundamental concepts of lighting design for different spaces and applications.