SBS5312 Lighting Technology

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Assignment 01 – Appreciation of Indoor Lighting Design

Lighting design is the process of creativity using the qualities and functions of light to affect people, objects and space. The qualities of lighting are intensity, form, colour and movement. The functions of lighting are visibility, mood (atmosphere), composition and motivation.

Objective

To appreciate and evaluate the basic principles and requirements of interior lighting design.

Methodology

This assignment is intended to strengthen what you have learned during the lectures, by investigating the related topics further and relating your learning to practical situations. Each student shall carry out the investigation of indoor lighting design in a real building space (such as retails, restaurants, shopping malls, offices, classrooms, library). You may choose any indoor lighting design or space that you find interesting. By using personal observations and technical analysis, you shall evaluate the characteristics of the visual environment and the key design issues of the lighting system. The space being investigated may have both natural and artificial light sources, or only one of them.

Report Submission

Each student shall prepare a technical report of not more than ten (10) A4 pages to explain the findings of the investigation in a systematic and logical manner. The contents of the report shall address the following aspects. Other important issues may also be included.

- Basic description of the building space
- Major functions and goals of the lighting system(s) in the space
- Design objectives and constraints in the space
- Characteristics of the visual environment
- Types of light sources and design arrangements
- Key design factors and criteria of the lighting system(s)

Detailed calculations and technical information are not required for this appreciation, but essential data, simple estimation, conceptual diagrams and site photos of the space and the lighting system are useful to enhance understanding. If appropriate, a list of references should be provided at the end of the report. The report shall be submitted in electronic format (PDF file) through the Moodle system.

Useful References

Raynham, P., 2012. *The SLL Code for Lighting*, Society of Light and Lighting (SLL), London.
SLL, 2009. *The SLL Lighting Handbook*, Society of Light and Lighting (SLL), London.
Discovering light: Guide (ERCO) http://www.erco.com/guide/guide-6188/en_us/
The Lighting Handbook (Zumtobel) http://www.zumtobel.com/PDB/teaser/EN/lichthandbuch.pdf
Map of Light (Zumtobel) http://www.zumtobel.com/com-en/lighting_solutions.asp