THE HONG KONG POLYTECHNIC UNIVERSITY
香港理工大學

COLLEGE OF PROFESSIONAL AND CONTINUING EDUCATION
專業及持續教育學院

School of Professional Education and Executive Development
專業進修學院
SPEED

RCGETB
Research Centre for Green Energy, Transport and Building
綠色能源、交通運輸及建築科研中心

Research Workshop

Building Lighting Design Using DIALux
A New Future to Efficient Lighting Design

Research Centre for Green Energy, Transport and Building (RCGETB)

Date: 29 February 2024 (Thursday)
Time: 2:30 pm - 4:00 pm
Venue: Online (MS Teams)

Dr Muhammad ASIM
Lecturer
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Biography

Dr Muhammad Asim's research interests focus mainly on the field of renewable energy including Advanced HVAC systems, integrated waste heat recovery techniques, thermofluids, solar thermal desalination, and thermal management of high power electronics in electric vehicles as well as heat pumps designing. He completed his PhD from the City University of Hong Kong in 2020 and served as Post-Doctoral Engineer in Sustainable Energy Ltd. at HKSTP for one year where he extensively worked on optimisation and designing of refrigeration and heat pump systems.

Abstract

A well-designed lighting system provides just the right amount of light for its intended application: less lumens yield poor performance, but more lumens represent wasted energy. Like in any building system design, the optimal capacity can only be specified with an adequate calculation procedure. The purpose of lighting calculation is to reach a suitable illuminance level for the intended application. Although there are many lighting design software packages available, DIALux has the advantage of being free while remaining a powerful design tool. DIALux can adapt to a wide range of project conditions, ranging from individual rooms to complete buildings, as well as outdoor locations. The software can also account for daylighting through windows. Architectural files from common formats like DWG (AutoCAD) can be imported, avoiding tedious file conversions. In this workshop, the focus is to explore the DIALux software as an emerging tool for efficient lighting design for buildings, streets, indoor and outdoor locations.

All are welcome!
Register Now!

Kindly make the reservation at: https://forms.office.com/r/0H5yQyVxZ1

For enquiries, please contact Ms Kristy Lau at kristy.lau@cpce-polyu.edu.hk or 3746 0021