

Advanced Course on Sustainable Lighting Practices

Organised by

TERI and PHILIPS Lighting Academy

Date 24 – 26th February 2016

Venue: Seminar Hall, TERI-SRC, 4th Main Rd, Domlur II Stage, Bangalore

Agenda (subject to minor modifications)

Timing	Programme	Brief
Day 1 : Indoor Lighting Principles & Design		
9:00 AM to 9:30 AM	Registration	
9:30 AM to 10:00 AM	Introduction to the course and relevance of lighting in buildings (TERI)	Lighting scenario in India and how this course is going to help to an individual with session wise detailing and how it can help further to participants.
10:00 AM to 10:30 AM	Ice Breaker Session (PLA/TERI)	Interactive Quiz session on light, eye, vision, colour and other lighting parameters.
10:30 AM to 10:45 AM	Coffee Break	
10:45 AM to 12:00 PM	Beyond Illumination: Light Characteristics and impact on human being (PLA)	Physiological impacts, Psychological impacts, Health and well-being 'Light and Colour, Dynamic Lighting
12:00 PM to 1:30 PM	LEDs-Things to know (PLA)	Light generation, Colour creation, LED light quality, LED Luminaire Components, LED Standards and Specification building
1:30 PM to 2:00 PM	Lunch Break	
2.00 PM to 3:30 PM	Lighting Design Principles & Photometric Data (PLA)	Visual Performance, Visual comfort and Energy, Lighting Standards, Concept creation, Lighting layers, Lighting

		Systems, Luminaire Selection and Photometry
3:30 PM to 3:45 PM	Coffee Break	
3:45 PM to 5:15 PM	Lighting Design concept development exercise (Group Exercise) (PLA & TERI)	Design concept creation exercise and presentation (Group exercise)
5:15 PM to 5:45 PM	Connected Lighting Demo (PLA)	HUE Demo
Day 2 : Daylight Integration with Lighting Controls & Energy Audit		
9:30 AM to 11:00 AM	Daylighting Design Techniques & Standards: Requirement as per GRIHA & LEED (TERI)	Importance of day lighting as per rating and standards and design can facilitates them
11:00 AM to 11:15 AM	Coffee Break	
11:15 AM to 12:45 PM	Lighting Control Technologies: Control Fundamentals, Application & Case studies (PLA)	Basic building blocks, Sensor Technologies, Communication Protocols, Standalone controls, Networked Controls – Application and benefits, Case studies
12:45 PM to 1:30 PM	Lighting control design as per ECBC (TERI)	Requirement of lighting control as per ECBC
1:30 PM to 02:00 PM	Lunch	
2:00 PM to 2:30 PM	Daylight integration & Case studies (TERI)	Case studies on daylight integration
2:30 PM TO 4:00 PM	Lighting Audit and Retrofit Approach (TERI & PLA)	Explain how lighting audit is conducted and what all parameters are important, Financial models for retrofit (PLA)
4:00 PM to 4:15 PM	Coffee Break	
4:15 PM to 5:30 PM	Hand-on lighting Audit and report preparation (TERI)	Engage all the participants in live audit where they shall conduct all requirements as per audit.
Day 3 : DIALux Training		
9:30 AM to 11:00 AM	DIALux software training module : Day Lighting (TERI)	Share exercise and discuss how to build model in Dialux- With Sample room, Use day lighting scenario and calculate all require parameters as per rating and standards.
11:00 AM to 11:15 AM	Coffee Break	

11:15 AM to 1:00 PM	DIALux software training module : Artificial lighting & Day Light integration (PLA)	Simulate artificial lighting, And then using lighting controls technologies design day lighting integration
1:00 PM to 1:30 PM	Lunch	
1:30 PM to 3:15PM	Hands-on DIALux software: Practical exercise for participants (TERI)	Exercise to evaluate the participants
3:15 PM to 3:30 PM	Coffee Break	
3:30 PM to 4:45 PM	Hands-on DIALux software: Evaluation & Discussion (TERI)	Exercise to evaluate the participants
4:45 PM to 5:00 PM	Feedback and closure/distribution of certificates	