

Sri Lanka Lighting Education Program, June 1 – 12, 2009

| Date | Time | Subject | Method |
|-----------------------------------|----------------------|---|---|
| Monday, June 1 st | 9:00 AM – Noon | Introduction of participants, Introduction to the TRAINING PROVIDER, Tour of TRAINING PROVIDER facilities, Review of schedule for the program. | Lecture / tour |
| | 1:00 PM – 2:30 PM | Lighting Terminology – a review of the commonly used terms in lighting and vision using definitions and examples. | Lecture / group discussion |
| | 2:45 PM – 5:00 PM | Lighting Technology – “The lighting system” - lamps, ballasts, controls, luminaries; determining lamp/ballast compatibility, energy efficiency, application efficacy; guides and tools to selecting lighting technologies. | Lecture / discussion / demonstration |
| Tuesday, June 2 nd | 9:00 AM – Noon | Lighting Technology – continued with laboratory session on technology testing and evaluation | Lecture / Lab session / demonstration |
| | 1:00 PM – 3:15 PM | Light – the physics of light - optics, photometry, measurement, colorimetry | Lecture / Demonstration |
| | 3:30 PM – 5:00 PM | Light continued with laboratory session | Lab session |
| Wed. June 3 rd | 9:00 AM – Noon | Human Factors of Lighting - Vision, the human eye, effects of aging, lighting and task performance, human factors issues in lighting design | Lecture / Demonstration |
| | 1:00 PM – 2:30 PM | Light and Health – The biological effects of light, the interaction of lighting and human health | Lecture / Demonstration |
| | 2:45 PM – 5:00 PM | Human factors / Light and health laboratory session | Lab session |
| Thurs. June 4 th | 8:00 AM – 5:00 PM | Field trip to lamp and LED system manufacturer facilities. | Field trip |
| Friday June 5 th | 8:00 AM – 5:00 PM | Field trip to Luminaire manufacturer facilities. | Field trip |
| Saturday, June 6 th | 2:00 PM | Social event to be determined | |

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| Monday, June 8 th | 9:00 AM – Noon | Daylighting – Incorporating daylighting in building design – tools and techniques for sustainable daylighting | Lecture / demonstration / group exercises |
| | 1:00 PM – 2:30 PM | Daylighting design continued | Lecture / case studies / group exercises |
| | 2:45 PM – 5:00 PM | Daylighting control systems – specifying systems to control electric lighting in response to daylighting | Lecture / demonstration / group exercises |
| Tuesday, June 9 th | 9:00AM – Noon | Light emitting diode (LED) technology, operation, and applications | Lecture / demonstration |
| | 1:00PM – 3:00PM | LEDs – thermal and electrical characteristics of LEDs, evaluation of LED systems | Lecture / demonstration |
| | 3:00PM – 5:00PM | Hands-on session working with LED components and systems | Team projects |
| Wed. June 10 th | 9:00 AM – Noon | Introduction to lighting application and design, important considerations in lighting design, the design process | Lecture / discussion |
| | 1:00 PM – 3:00PM | Lighting quality, what is it? How do we measure lighting quality? Using and teaching the IESNA handbook's lighting design guide. | Lecture / team projects |
| | 3:00 PM – 5:00 PM | Lessons Learned in Lighting Applications – a review of case studies in commercial, industrial, institutional, and residential buildings | Lecture / Presentation / case study review |

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| Thursday, June 11 th | 9:00AM – 11:00 AM | Important considerations, design techniques, and recommended practices for lighting in commercial and residential applications. Instructors will review important application and design considerations for a variety of applications. | Lecture / demonstration |
| | 11:00 AM – Noon | Lighting Evaluation – conducting and evaluation and audit of an existing lighting installation | Lecture / demonstration |
| | 1:00 PM – 2:15 PM | Economic analysis of a lighting project – how to conduct an economic analysis of a lighting design or expositing installation | Lecture / group project |
| | 2:30 PM – 5:00 PM | Lighting evaluation project – teams will each evaluate an individual interior lighting application, develop a report and make recommendations | Group project |
| Friday, June 12 th | 9:00 AM - Noon | Lighting design project: conceptual design to specification. Teams will develop designs for a selected setting addressing client requirements, human needs, architecture, energy-efficiency, technology and daylight integration, control, cost, etc. | Group project |
| | 1:00 PM – 2:30 PM | Review of group design projects – each team will present their solution to the group for feedback | Group presentations |
| | 2:45 PM – 4:00 PM | Lighting-related energy-efficiency program development – How to develop a program to encourage the use of energy-efficient lighting technologies and design techniques | Lecture / group discussion |
| | 4:00 PM – 5:00 PM | Final questions and answers; presentations of certificates | Group discussion |