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Capacity Building for Sustainable Lighting Solutions in Mozambique

Teacher training

Date: 25 and 27 February 2025

Place: Webex (online)

Webex link: <https://hou.webex.com/meet/doulos>

Tuesday, February 25, 2025

10:30 – 16:30 Use of digital tools in lighting design and simulation (RELUX)

Thursday, February 27, 2025

10:30 – 16:30 Training of teachers on the content and materials of two new courses



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Teacher training

February 27, 2027
Webex

Thursday, February 27, 2025

- Welcome and introduction
- Session 1 – Course 1
- Lunch Break
- Session 2 – Course 2

Note: Teachers were asked to read the lecture materials before attending the Q&A session





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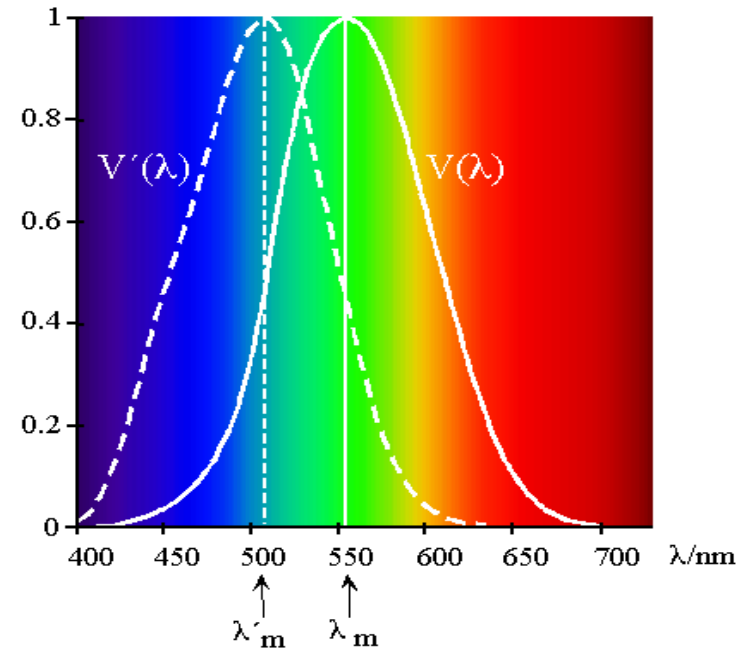
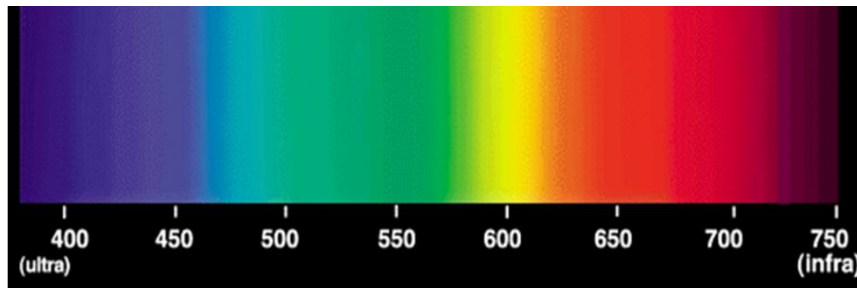
Session 1 – Course 1

**(Brief description of each module by instructor
followed by Q&A)**

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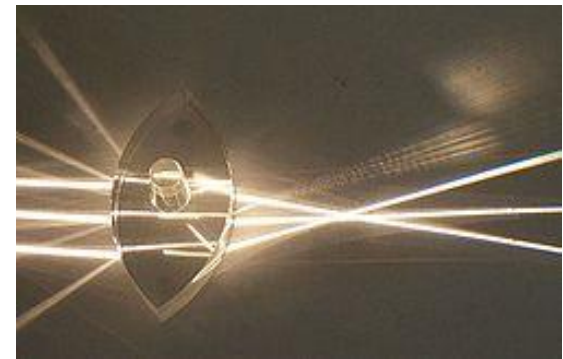
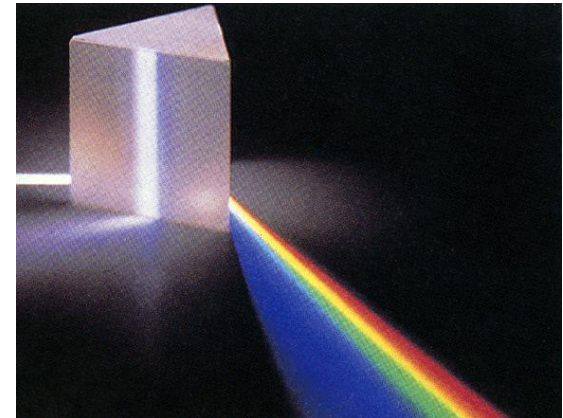
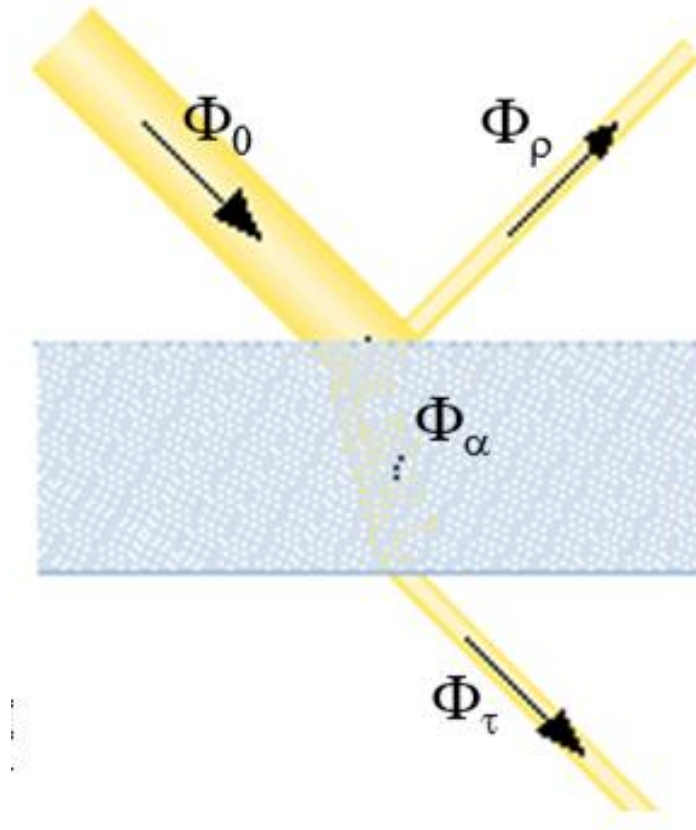
Q&A on Course 1 – Module 1

- Fundamental concepts: light and radiation, photometry, colorimetry



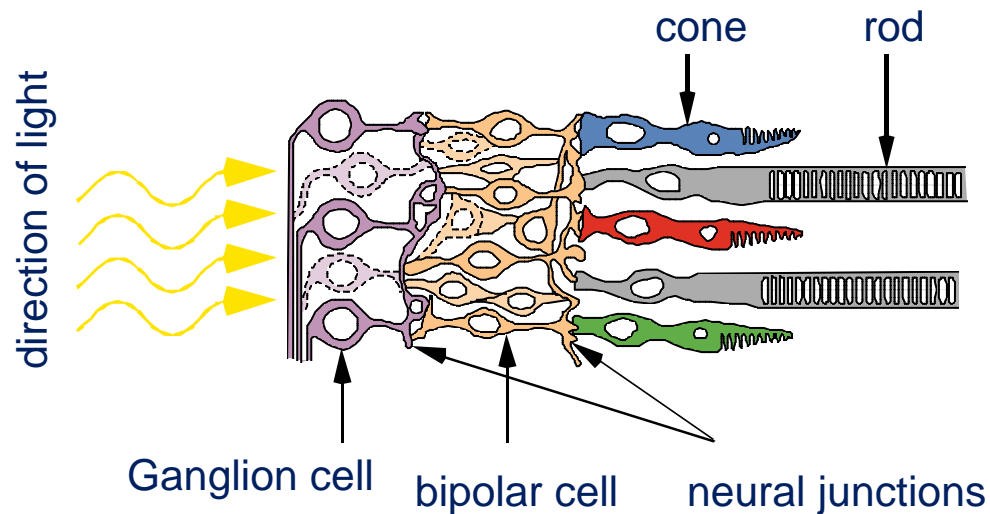
Q&A on Course 1 – Module 2

- Optical properties of materials



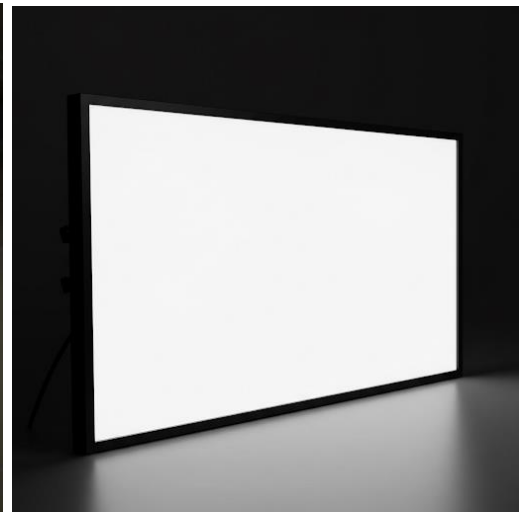
Q&A on Course 1 – Module 3

- Visual and non-visual aspects of light



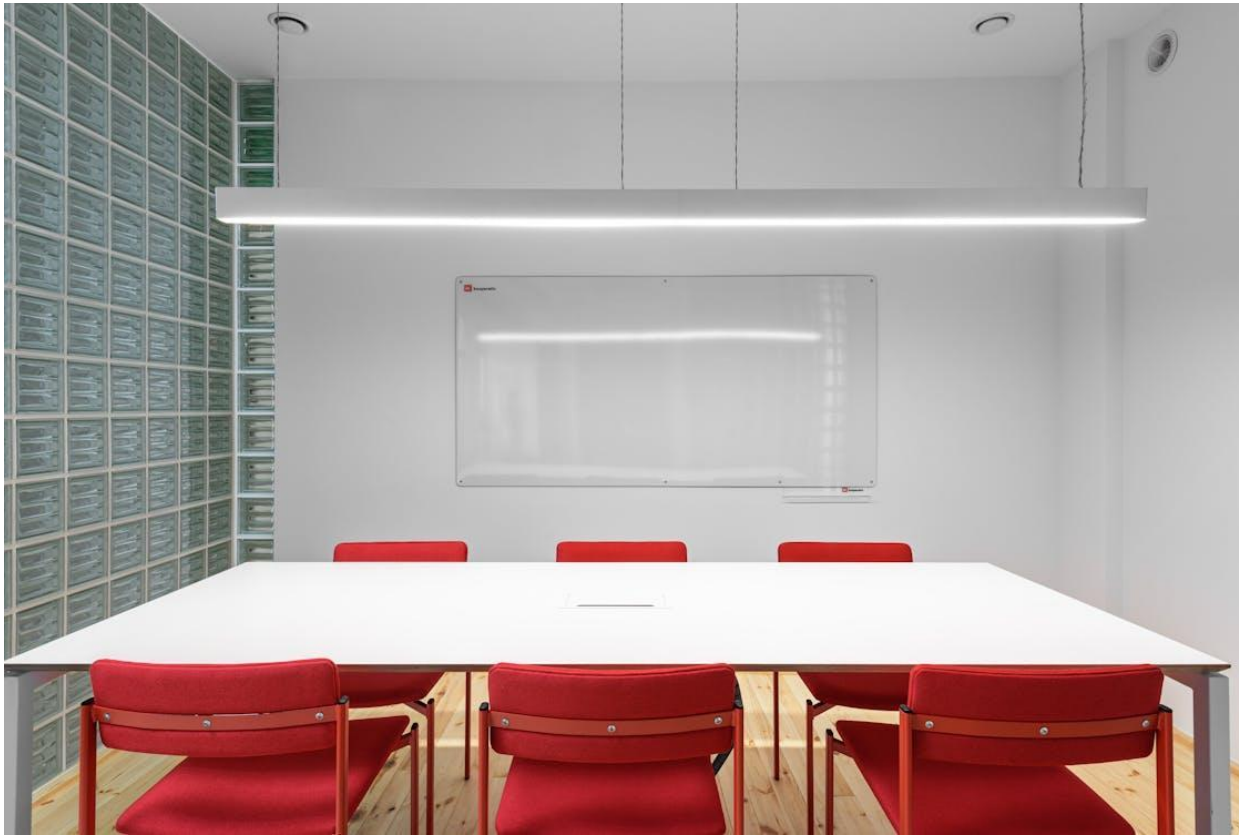
Q&A on Course 1 – Module 4

- Light sources (light generation techniques, traditional light sources, solid state light sources, daylighting)



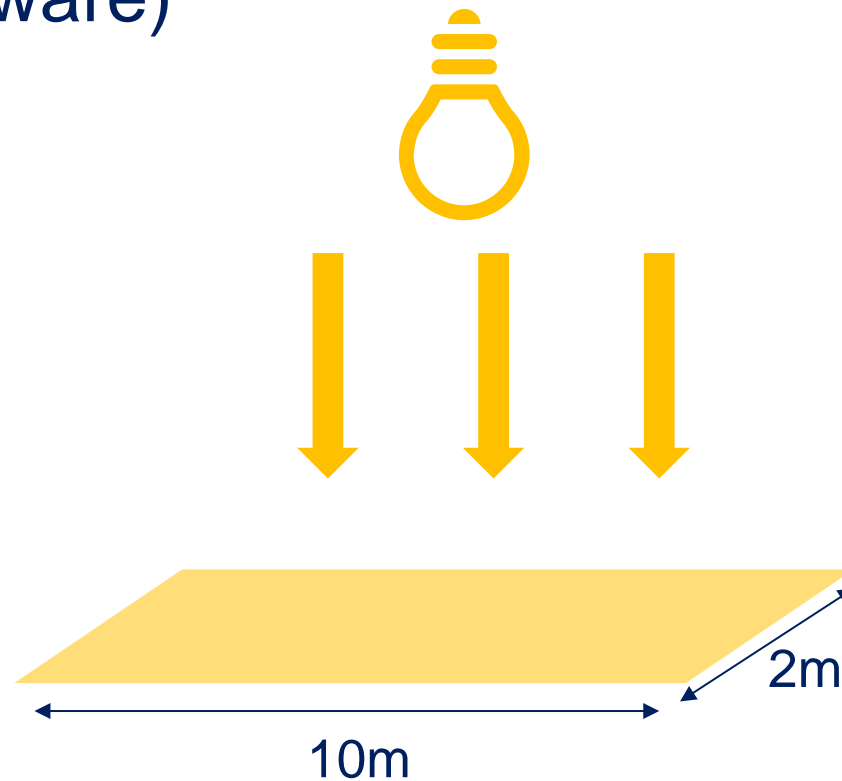
Q&A on Course 1 – Module 5

- Lighting design principles



Q&A on Course 1 – Module 6

- Lighting planning and design (without the use of software)





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Session 2 – Course 2

**(Brief description of each module by instructor
followed by Q&A)**

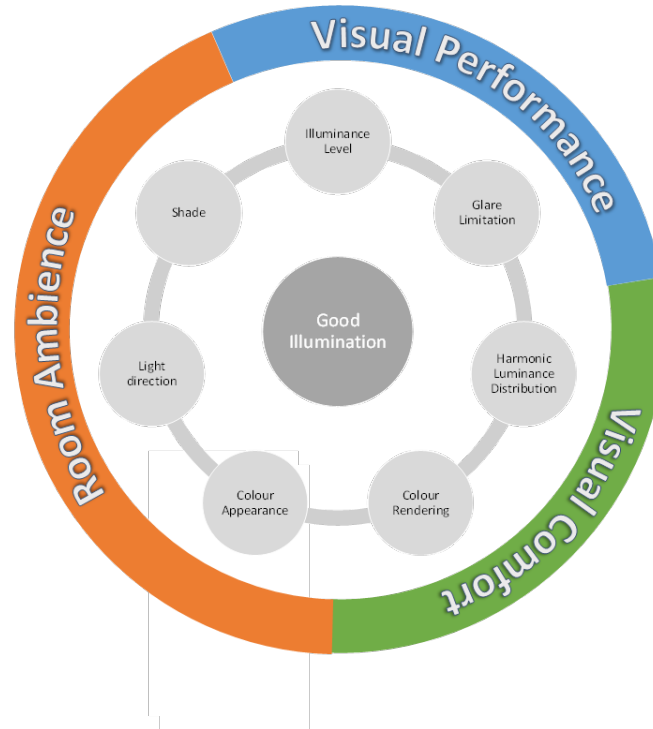
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Q&A on Course 2 – Module 1

- Energy efficiency and sustainability

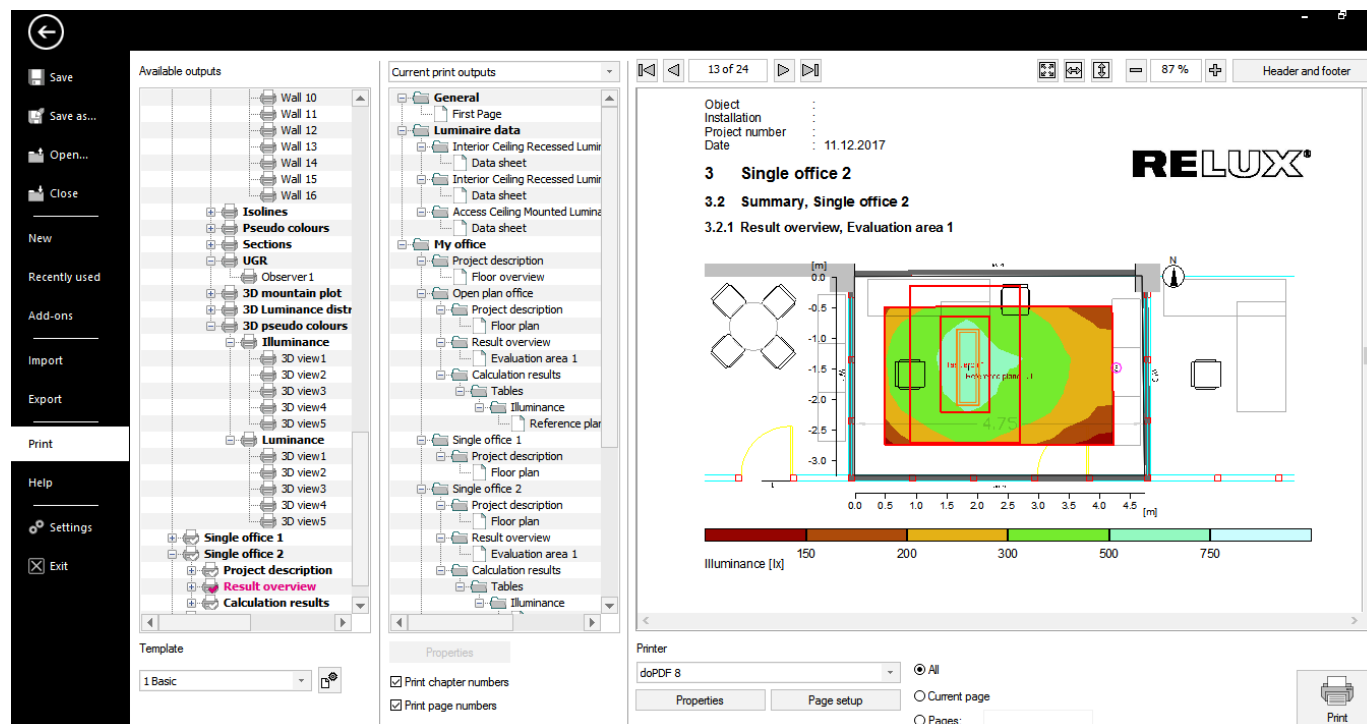
“Increases in energy efficiency take place when either energy inputs are reduced for a given **level of service** or there are increased or enhanced services for a given amount of energy inputs.”

(source: eia.doe.gov)



Q&A on Course 2 – Module 2

■ Lighting design tools and software



Q&A on Course 2 – Module 3

- Regulations and standards



Making LED light sources
interchangeable.



Illuminating
ENGINEERING SOCIETY

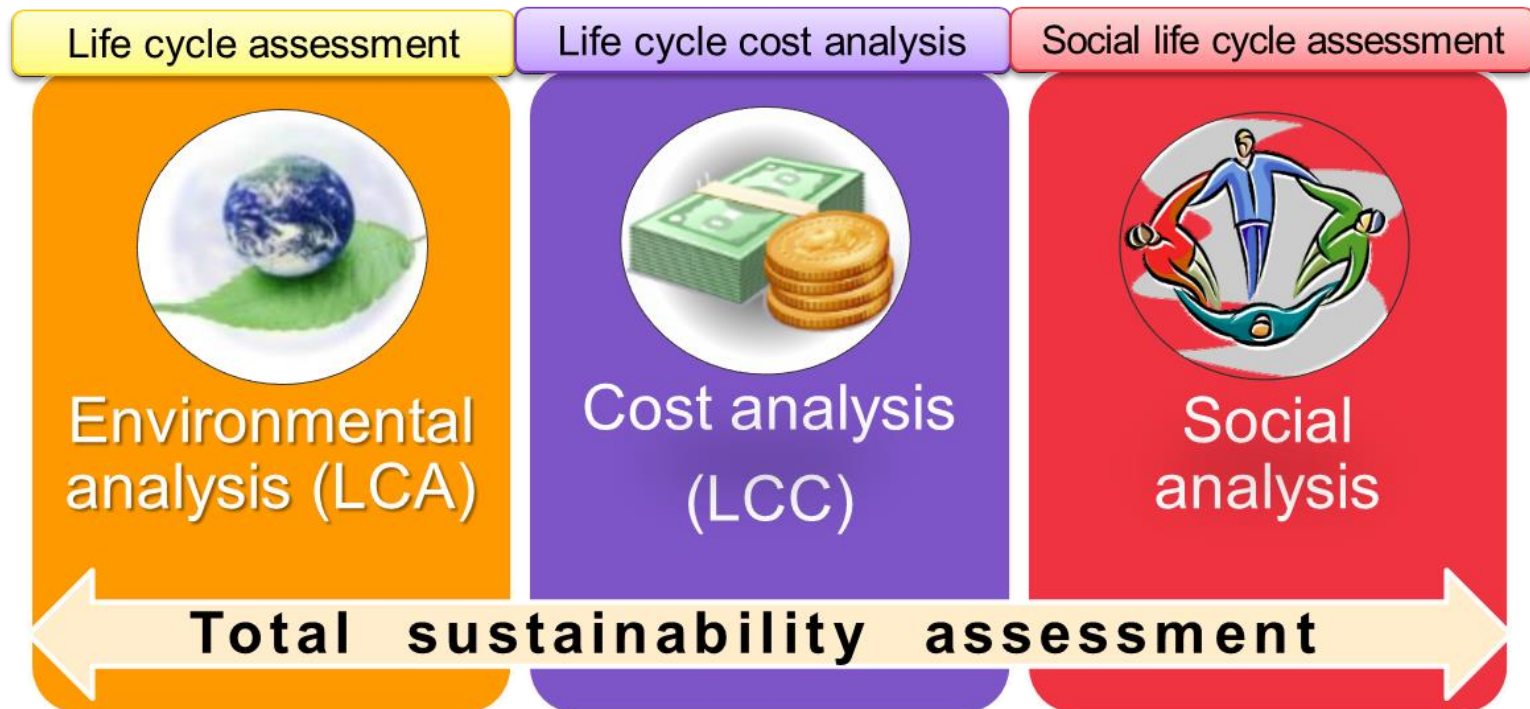


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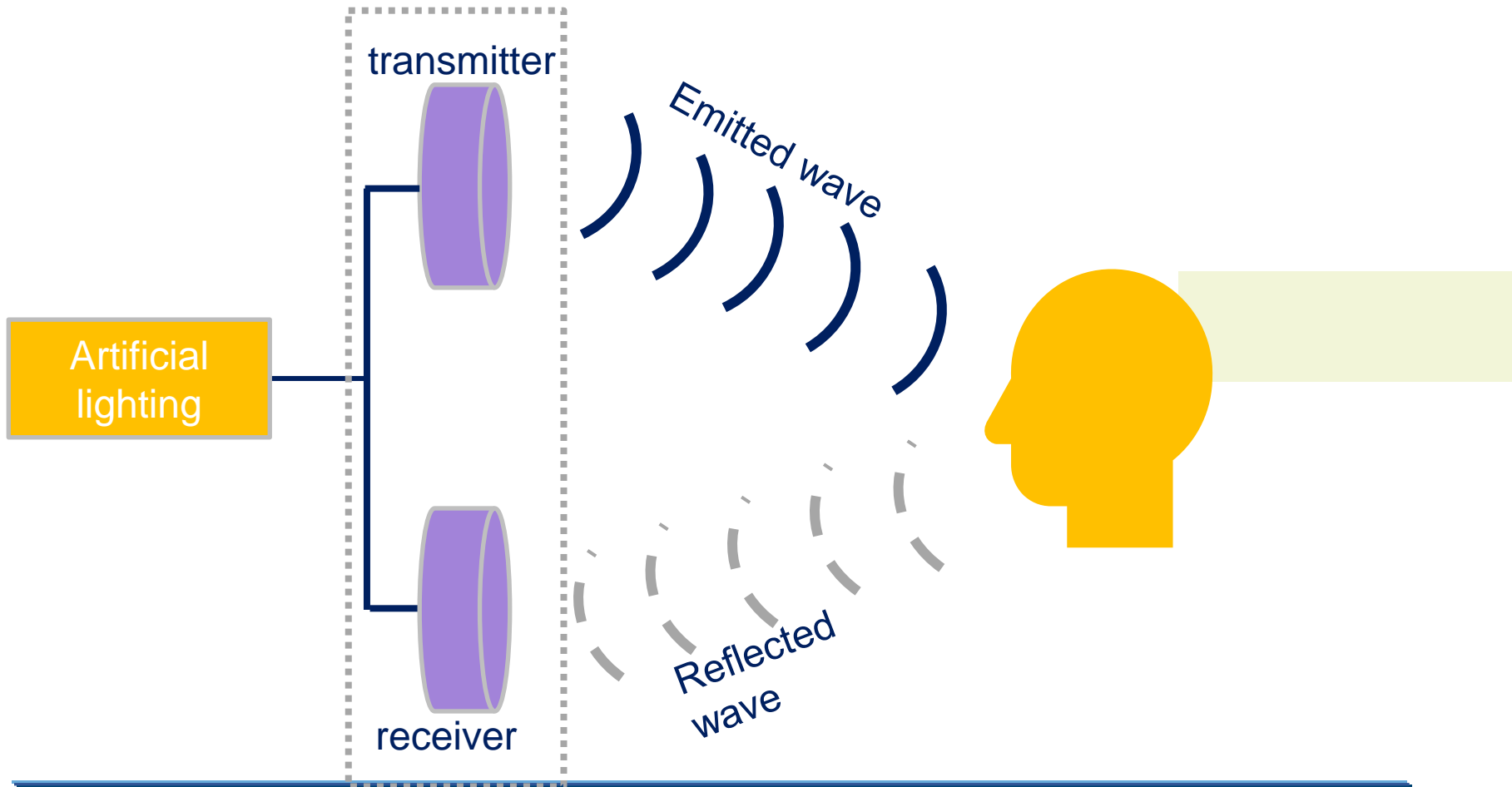
Q&A on Course 2 – Module 4

- Energy and environment (LCA, LCC)



Q&A on Course 2 – Module 5

- Smart lighting



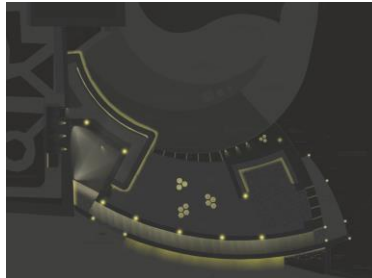
Q&A on Course 2 – Module 6

- Practical applications and projects (residential, commercial, industrial, outdoor, road, sports, agriculture and farming)



Q&A on Course 2 – Module 7

- Case studies and critical analysis



Summary

Summary of the sessions on both courses

Information on feedback collection



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