

Sustainable Innovation

School 1

TITLE

Life cycle sustainability assessment. A methodology to support industrial sector to measure contribution to SDGs

RESPONSIBLE PARTNER

RWTH Aachen University

OVERVIEW

The Summer School is aimed at providing basic concepts and methods on sustainable development and how to measure sustainability in order to assess contributions to the United Nations Sustainable Development Goals (SDGs). It provides strategic and practical knowledge needed for decision making at company and community levels.

Specific goals include:

- a) Approaches in developing a sustainability strategy at various levels
- b) Understanding differences between sustainability at Corporate, product and community levels.
- c) Understanding which portfolio of methods and tools are available for assessing sustainability performance at different levels.

LEARNING OUTCOMES

students are expected to acquire knowledge on the fundamental elements needed for an efficient sustainability strategy through the analysis of international and regional strategies such as the Montreal and Kyoto Protocols. Furthermore, an overview of sustainability assessment methods and tools will be provided with a focus on the life cycle assessment related methodologies. Students will have practical sessions during which the various databases and softwares of LCA will be explored including Simapro and GaBi. The final exam will also include the completion of a group research on analyzing regional strategies in Africa and applying or analyzing sustainability assessment methods at community, product and company levels.

LOCATION

Strathmore University, Nairobi, Kenya

DURATION

30h, 5 days full-time in presence

PERIOD

13 - 17 November 2023



MODALITY

One week, in presence with frontal lectures, practical hands-on sessions and group work, asynchronous individual preparation before lectures and exercises after lectures on suitable learning platform.

LANGUAGE

English

SCHEDULE

Introductory module: 2 days for frontal lectures. Practical module: 3 days for hands-on sessions, group-work and final presentations

LESSON HOURS

18

GROUP WORK HOURS

12

TOPICS

- *Efficient sustainability strategy: International and regional*
- *Stakeholder Analysis*
- *Sustainability Assessment for Communities and Companies*
- *Sustainability Assessment for products & services: LCA, LCC, S-LCA*
- *Sustainable Finance*
- *Life Cycle Sustainability Assessment*

PROPOSED TEACHERS (TBD)

Germany: *Marzia Traverso (INaB RWTH); Rose Nangah Mankaa (INaB RWTH)*

