

## Sustainable Innovation

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### School 2

**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**

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)*

