Veranstaltung im Rahmen des Promotionsprogramms der Abteilung Ressourcen und Nachhaltigkeit

TITEL: Umwelt- und Nachhaltigkeitsbewertung mithilfe von Lebenszyklusanalysen	
Datum/Uhrzeit:	26.09.2024; 27.09.2024, jeweils 9:00 Uhr bis 17:00 Uhr
Ort/Raum/online:	Hochschule Bonn Rhein Sieg (Grantham Allee 20, 56765 Sankt Augustin, G114)
Maximale Teilnehmendenzahl:	20
Dozierende:	Prof. Dr. Ramchandra Bhandari, Prof. Dr. Stefanie Meilinger
Art der Veranstaltung	Fachlich vertiefende Veranstaltung
Teilnahmevoraussetzung:	Interesse am Thema – Umwelt und Nachhaltigkeit
Veranstaltungssprache:	Englisch
Mitzubringen/vorzubereiten	Eigener Laptop, die Software muss kurz vorher installiert werden, Informationen folgen
Anmeldezeitraum:	bis spätestens 06.09.2024
Anmeldung und Kontakt:	Cordula Obergassel: cordula.obergassel@gi-nrw.de
Lernziele:	• Participants understand the method of life-cycle-assessment (LCA). • Participants can use the environmental LCA software GABI (basic starting level). • Participants can understand different impact categories and are able to analyse impact assessment results obtained from eLCA simulations. Participants will learn about impact categories for all three dimensions of sustainability including life cycle costing (LCC) and sozial LCA (sLCA) as well as eLCA. • Participants will be able to apply sustainability assessment methods for any product or service
Inhalte:	Day 01 (Bhandari) • Introduction into eLCA with some case studies. • Understanding the details on eLCA – following steps mentioned in the ISO 14040 and 14044 • Introduction to the eLCA analysis softwares, including a case study using the software GaBi

	Day 02 (Meilinger) Morning Session: • Insight in different Impact Categories of eLCA. Understanding the sicences behind different characterization models. e.g. global warming potential (GWP), ozone depletion potential (ODP), photooxidation potential (POCP), eutrophication potential (EP), acidification potential (AP). • Understanding the difference between midpoint and endpoint models. Afternoon Session: • Understanding the concepts for Life Cycle Sustainability Assessment. • Insight in non-environmental impact categories and understanding the concepts of life cycle costing (LCC) and social life cycle assessment (sLCA) with some case studies from energy sector
Literatur:	ISO 14040:2006 (second edition with amd. 1:2020): Environmental management: Life cycle assessment — Principles and framework ISO 14044:2006 (first edition with amd. 2:2020) Environmental management: Life cycle assessment — Requirements and guidelines Hauschild and Huijbregts (Edts.) Life cycle impact assessment" Springer (2015)