



Global Climate and SDG Engagement I

Module title:

Global Climate and SDG Engagement I

Credits:

6

Responsible person:

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Englisch

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Learning Outcomes

Upon completing the course, students will be able to:

- Plan projects in international, intercultural and transdisciplinary teams to fulfill the needs of local communities in the partner countries of the network using renewable energy or other sustainable technologies.
- Communicate interculturally especially with partners in the Global South and to reflect on this communication
- Network with different partners (local communities, cooperatives, business, administration)
- Plan their project work as a service-learning project, know all necessary aspects of this concept and realize a certain number of service elements contributing to the success of the project for the partner community and environmental aspects.
- Plan and work in social business project and know the characteristics of social business
- Contribute to climate and SDGs by local and common international climate action through CO₂compensation
- Reflect on climate justice and SDGs allowing a potential change of behavior to reduce individual and collective negative impact on climate, environment, and global justice
- Use different methods to collect data for analyzing the needs of the community partner.
- Have an overview about different technologies and background information necessary to develop sustainable community-based projects
- Conduct literature research and analyses of prior projects in the area and the sociocultural context to improve their own project work.
- Use English as a common language for international scientific and project work

Content

The integrated module offers:

- international hybrid workshops by lecturers of all partner countries on technologies and background information necessary to develop sustainable community-based projects, e.g. intercultural communication, PV training, CO₂compensation, household biogas plants, clean cooking, biogas, social business,
- International student hybrid working groups developing CO₂compensation projects for climate and SDGs tackling the needs of the local partner communities together with the partner NGOs.
- Practical Service elements contributing to the success of the project for the partner community and to the climate action (including, e.g., training sessions in schools, fundraising events, activities in waste management, organic gardening, tree planting)
- Research and innovation opportunities to deepen the development and application of sustainable technologies and methodologies

Module Components

Course Name	Type	Number	Cycle	SWS
Global Climate and SDG Engagement I	IV		WiSe/SoSe	6

Workload and Credit Points

Global Climate and SDG Engagement I (Integrierte Veranstaltung)	Multiplier	Hours	Total
Weekly International workshops	15.0	2.0h	30.0h
Weekly International student team meetings	15.0	2.0h	30.0h
FIELD VISITS + MEETING STAKEHOLDERS Exchanging with community Establishing the needs of the community Supporting community with the CO ₂ compensation contract	5.0	7.0h	35.0h
SHORT SERVICE ELEMENTS Weekends and single day activities (environmental trainings, step-by-step implementation, fundraising events)	6.0	5.0h	30.0h
Preparing Presentations and Project Planning Elements	7.0	5.0h	35.0h
Personal/Literature research	1.0	20.0h	20.0h
			180.0h

The Workload of the module sums up to 180.0 Hours. Therefore the module contains 6 Credits.

Description of Teaching and Learning Methods

Project work, service learning and social business approach, lectures, workshops, field trips

Requirements for participation and examination

Desirable prerequisites for participation in the courses:

A bachelor degree of any relevant field (not only engineering and sciences, but also economics, sociology, health, education, gender studies) providing the necessary competences to develop sustainable development projects in the field of renewable energy, energy efficiency, land use, waste management, ...

Undergraduate students with a proven relevant background are eligible too.

It's not a prerequisite to participate also in the Global Climate and SDG engagement II module, but participants are encouraged to do so.

Mandatory requirements for the module test application:

keine Angabe

Module completion

Grading:	Type of exam:	Language:
graded	Portfolioprüfung 100 points in total	English

Grading scale:

Note:	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0
Punkte:	90.0	85.0	80.0	75.0	70.0	66.0	62.0	58.0	54.0	50.0

Test description:

In this module students learn, how to plan projects in international, intercultural and transdisciplinary teams to fulfill the needs of local communities in the partner countries of the network using renewable energy or other sustainable technologies.

So the portfolio exam consist of the elaboration and presentation of different stages and elements of the project planning process and practical and teaching elements linked to it.

Test elements	Categorie	Points	Duration/Extent
Project draft	flexible	20	Presentation/project template
Project	flexible	40	project management tables + presentation
Short Workshop quizzes	flexible	10	10 minutes each - 1 page
Practical service elements	practical	20	hard + soft skills
Self-evaluation/self reflection	flexible	10	self-reflection form/meetings

Duration of the Module

The following number of semesters is estimated for taking and completing the module:

1 Semester

This module may be commenced in the following semesters:

Winter- und Sommersemester

Maximum Number of Participants

This module is not limited to a number of students.

Registration Procedures

This module in general is not limited to a specific number of students. But every student will be part of an international/national project team. These project teams have limited numbers according to the project, in general not more than 3-5 participants per country, total places per project team 6-10 participants. Each semester are offered 10-15 projects. So, the number of participants is every semester limited to the available places in project teams.

Therefor the interested students have to register on the website.

In the kickoff and the first 2 weeks the project teams are matched.

Recommended reading, Lecture notes

Lecture notes:
unavailable

Electronical lecture notes :
unavailable

Assigned Degree Programs

This moduleversion is used in the following modulelists:

Computational Engineering Science (Informationstechnik im Maschinenwesen) (Bachelor of Science)

StuPO 2018

Modullisten der Semester: WiSe 2022/23 SoSe 2023

Naturwissenschaften in der Informationsgesellschaft (Bachelor of Science)

StuPO 2018

Modullisten der Semester: WiSe 2022/23 SoSe 2023

Physikalische Ingenieurwissenschaft (Bachelor of Science)

StuPO 2020

Modullisten der Semester: WiSe 2022/23 SoSe 2023

Physikalische Ingenieurwissenschaft (Master of Science)

StuPO 2020

Modullisten der Semester: WiSe 2022/23 SoSe 2023

Regenerative Energiesysteme (Master of Science)

StuPO 2009

Modullisten der Semester: WiSe 2022/23 SoSe 2023

Students learn to place knowledge and actions in an overarching social and cultural context and to consider ethical consequences of actions in order to be able to contribute to sustainable development. Therefore this module is suggested for study programs of all disciplines to fulfill the requirement of study contents in this field to the extent of at least 12 LP by the end of the degree programme. Students of all national and international partner universities can take part in this module.

Miscellaneous

Linked to the Global Center for SDG and Climate Engagement Project, Greening Africa Together African based CO2Compensation and the Climate Partnerships TU Berlin-Greening Africa Together

Partner countries: Benin, Burkina Faso, Cameroon, Chad, Columbia, DR Congo, Ghana, Kenya, Senegal, Turkey, Togo, Uganda, Yemen

In case of field visits and other excursions there could be potentially required a contribution to the costs