TUHH
Technische
Universität
Hamburg

Certificate-specific study and examination regulations (ZSPO) set out by Hamburg University of Technology for the study-related academic certificate programme “Technology and Sustainability: SDG Campus” (ZSPO-SDG-Campus)

17 April 2024

Preamble

On 8 May 2024, the Executive Board of Hamburg University of Technology (TU Hamburg) approved these certificate-specific study and examination regulations for the study-related academic certificate programme "Technology and Sustainability: SDG Campus" (ZSPO-SDG-Campus) as per section 108, paragraph 1.3 of the Hamburg Higher Education Act (HmbHG). The regulations were agreed on 17 April 2024 by the School of Technology and Innovation in Education at TU Hamburg as per section 85, paragraph 1.1 HmbHG of 18 July 2001 (HmbGVBl., p.171) in the version dated 11 July 2023 (HmbGVBl., p. 243).

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§ 1 Scope

(1) These certificate-specific study and examination regulations apply to the study-related academic certificate programme "Technology and Sustainability: SDG Campus" (ZSPO SDG-Campus). Upon successful completion, a certificate for "Basic Studies Technology and Sustainability: SDG Campus" is awarded.

(2) The ZSPO SDG-Campus apply in addition to the current version of the regulations for study-related academic certificate programmes at Hamburg University of Technology (Certification Regulations) dated 22 November 2023.

§ 2 Responsibility, academic management and coordination

(1) The study-related academic certificate programme “Technology and Sustainability: SDG Campus” is part of the School of Technology and Innovation in Education.

(2) The decentralised Board of Examiners of the School of Technology and Innovation in Education is responsible for the study-related academic certificate programme “Technology and Sustainability: SDG Campus“.

(3) The Appeals Committee for certificate programmes within the School of Technology and Innovation in Education is responsible for the study-related academic certificate programme “Technology and Sustainability: SDG Campus“.

(4) The academic management and coordination of the study-related academic certificate programme “Technology and Sustainability: SDG Campus“ falls under the responsibility of the head of the Institute for Technical Education and University Didactics (ITBH) at TU Hamburg.

(5) The study-related academic certificate programme “Technology and Sustainability: SDG Campus“ study option is available in German or English. [2] It is developed by the participating universities and made available on the shared learning platform.

§ 3 Admission requirements

(1) Students who are enrolled at one of the universities participating in this university alliance are entitled to register on their learning platform and take and complete study options that are part of the study-related academic certificate programme “Technology and Sustainability: SDG Campus“.

(2) Access to ‘Challenges’ on the learning platform may be restricted as per section 9, paragraph 4 of the ASPO if the maximum number of participants is reached or exceeded. Further details can be found in the information display relating to the respective ‘Challenge’ on the learning platform. Information about access restrictions must be transparent and coherent.

§ 4 Fees

Students with permission to access the course as per section 3, paragraph 1 will not be charged additional fees to participate in the study-related academic certificate programme “Technology and Sustainability: SDG Campus“.

§ 5 Level, duration of study and structure

(1) The study-related academic certificate programme "Technology and Sustainability: SDG Campus" is at Bachelor's level (level 6 of the German Qualifications Framework for Lifelong Learning, DQR).

(2) The study-related academic certificate programme "Technology and Sustainability: SDG Campus" totals 10 credit points. To successfully complete the course, students must successfully work through a learning pathway comprising the following study offer:

a. General introductory course (1 credit point),

b. SDG-specific foundation course (2 credit points),

c. Two advanced courses (2 credit points each),

d. 'Challenge' (3 credit points).

(3) After registering on the learning platform, students enrol independently in the study options as per paragraph 2, letters a to c, and complete them as online self-study courses at their own pace. The study offer referred to in paragraph 2d is a supervised (partially) synchronous course, either face-to-face or hybrid with group work and, where applicable, self-study components. Successfully participating in these study options requires compulsory attendance of at least 80% of the attendance time as per section 9, paragraph 5 of the ASPO.

(4) The study options as per paragraph 2, letters a to c conclude with a course achievement as per section 17 of the ASPO; the study offer as per paragraph 2d concludes with a test performance as per section 16, paragraph 2c of the ASPO. If a student does not pass the study offer as per paragraph 2d, it is possible to repeat it once at a time agreed with the lecturer.

(5) If the 'Challenge' is taken to obtain the certificate, the student must ensure as much thematic coherence as possible between the SDG-specific foundation course and advanced courses, as well as the 'Challenge'.

§ 6 Certification

(1) Once a learning pathway worth ten credit points has been successfully completed, and with it the study-related academic certificate programme "Technology and Sustainability: SDG Campus", a certificate will be issued upon application via the learning platform to the decentralised Board of Examiners (see section 2, paragraph 2).

(2) Students will be provided with a digital certificate of achievement on the learning platform for successfully completing the respective components of the certificate

programme as per section 5, paragraph 2. The digital transcript of records, which is also available on the platform, shows the successful completion of the respective component of the certificate programme as per section 5, paragraph 2.

§ 7 Effective date

(1) These certificate-specific study and examination regulations come into effect on the day following their publication.

(2) The certificate handbook in its current version is an annex to and considered part of these certificate-specific study and examination regulations.

17 April 2024

Hamburg University of Technology

Annex to the certificate-specific study and examination regulations dated 17 April 2024 for the certificate programme "Technology and Sustainability: SDG Campus" at TU Hamburg Academic management of the certificate programme: Prof. Sönke Knutzen Total number of credit points to be achieved to gain certification: 10 credit points	**Certificate handbook**	Version for certificate course participants from summer semester 2024 As per the SDA decision dated 17 April 2024 and Executive Board approval dated 8 May 2024 Effective date: 17 May 2024

1. Objectives of the study-related academic certificate programme

The certificate programme on the SDG Campus learning platform pursues the overarching goal of promoting the development of organisational competence in the spirit of sustainable development. Based on the common understanding that technological transformations can make a decisive contribution to sustainable development, quality-orientated, contemporary, generic study offers are being developed with this focus in mind.

The learning pathway gives learners the opportunity to develop generic and interdisciplinary decision-making and organisational skills to achieve the 17 UN Sustainable Development Goals (SDGs) and to experience other approaches to knowledge transfer and knowledge acquisition used in the online self-study course and 'Challenge' formats but not usually experienced within their degree programme curriculum. These formats are designed to encourage targeted and self-motivated learning behaviour among students. The interdisciplinary approach of these study options enables students to broaden their professional horizons to assess technologies and/or technology-centred subject areas from an interdisciplinary perspective, and to situate them within the sustainability spectrum, taking into account economic, ecological and social aspects.

The SDG Campus is a means of achieving the recommendations formulated by the German Conference of University Rectors for anchoring sustainability in all areas of university performance.

The learning platform and certificate programme are supported by the cross-university SDG Campus Network initiative, to which the following universities are affiliated:

- Hamburg University of Technology (TUHH)
- HafenCity University Hamburg
- RWTH Aachen
- TU Dresden

- Leibniz University, Hanover
- Stuttgart University
- Munich University of Technology
- Bauhaus University Weimar

and the University of Hamburg on the basis of the existing cooperation agreement with TU Hamburg.

2. Registration, course enrolment and responsible lecturers

Students are expected to register independently via the learning platform website: www.sdg-campus.de. It is possible to log in using your university e-mail address.

Enrolment on and participation in the course(s) is also independent and can be done at any time. The dashboard provides students with an overview of the courses they are taking and the current status of each course, so that they can continue to work on and complete courses at any time.

Students can also use the dashboard to access their transcript of records, which always shows the current status of the courses and 'Challenges' they have completed and can be digitally validated – it can also be used to digitally share an overview of their performance on the learning platform with external partners.

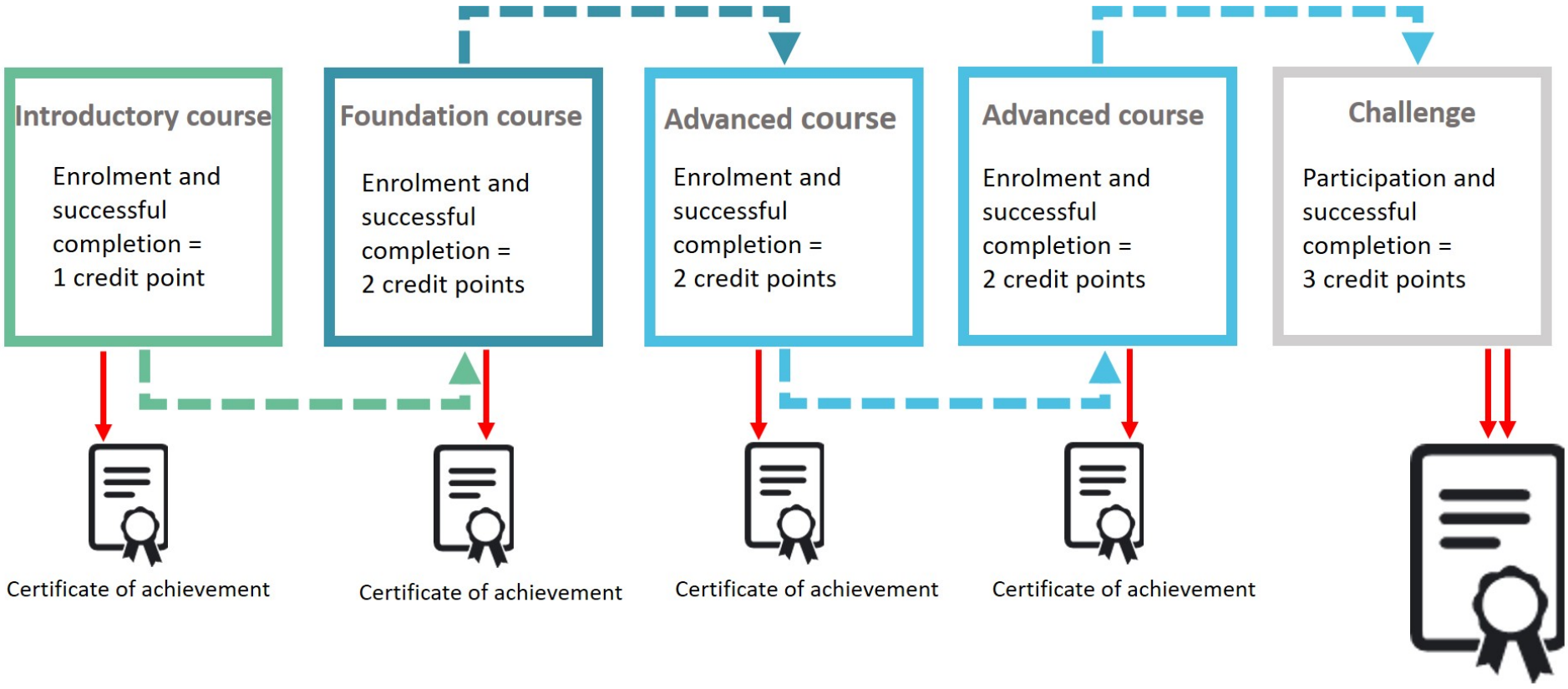
It is also possible to register for 'Challenges' via the learning platform, but please note any information on the respective 'Challenge' sub-page regarding the registration period, participation requirements and course capacity.

The academic management office for the certificate programme is responsible for the content and organisation of the certificate programme offered on the learning platform.

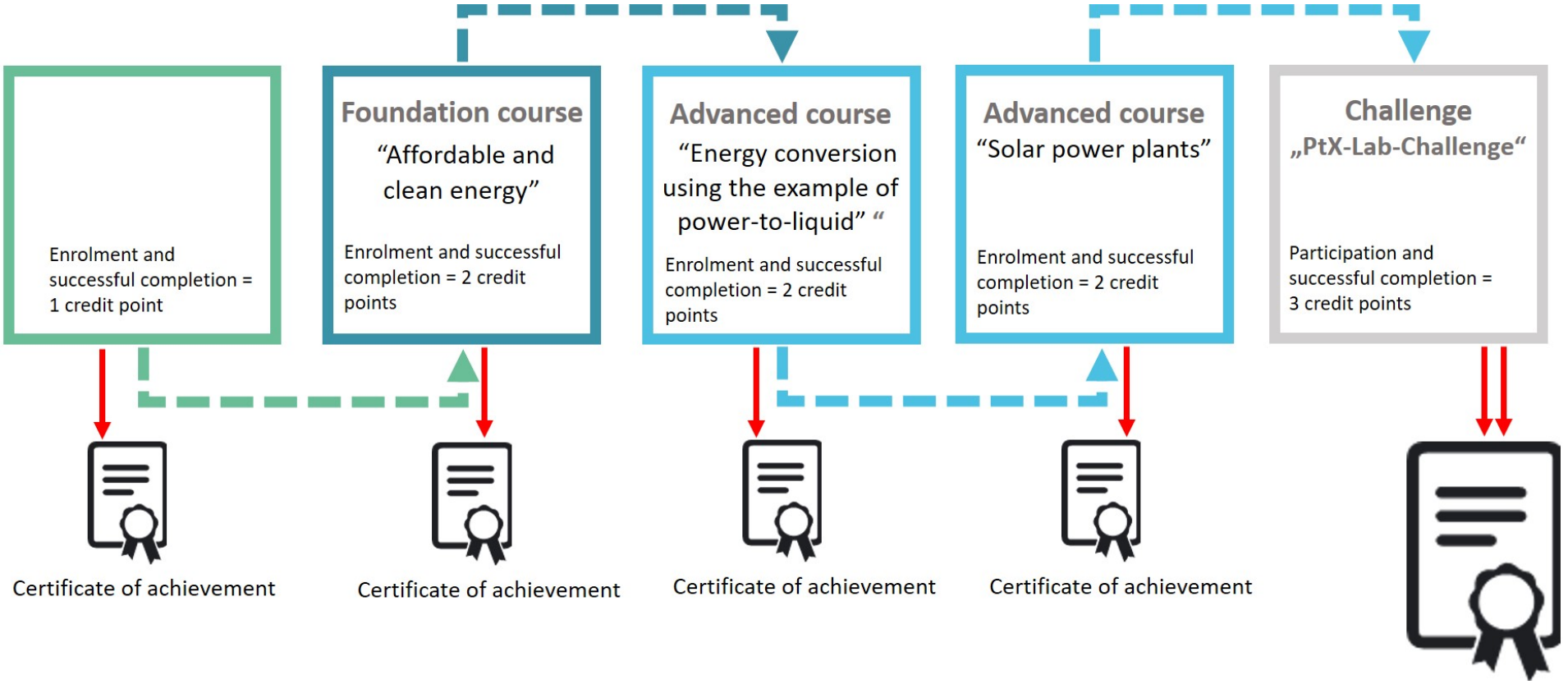
The lecturer who offers the 'Challenge' is responsible for the final 'Challenge' examination.

Lecturers who can be contacted and are responsible for the content of individual courses are listed in the section on individual courses on the learning platform.

3a. Schematic illustration of the learning pathway:



3b. Sample learning pathway for SDG 7:



Links to the individual components within this sample learning pathway:

Introductory course: https://sdg-campus.de/blocks/occoursemetaselect/detailpage.php?id=39
Foundation course on affordable and clean energy: https://sdg-campus.de/course/view.php?id=9
Advanced course on energy conversion using the example of power-to-liquid: https://sdg-campus.de/blocks/occoursemetaselect/detailpage.php?id=51
Advanced course on solar power plants: https://sdg-campus.de/blocks/occoursemetaselect/detailpage.php?id=19
PtX Lab Challenge: https://sdg-campus.de/blocks/occoursemetaselect/detailpage.php?id=89

4. Components within the learning pathway (courses and 'Challenges')

Study options	*Content*	*Study type*	*Requirements for successful completion*	*Assessment*	*Credit point*	*Comment*
General introductory course "Sustainability and technology – introduction"	Basic introduction to the topic, addressing the issue of the potentials and challenges should technologies be put to the service of sustainability, and what contribution the learners themselves can make to the theoretical and practical compatibility of these topics.	Online self-study course (Completion time 30 hours)	Course achievement: Practical coursework (FFST)	unmarked	1	Ideally to be completed as the first study option on the learning platform
SDG-specific foundation course	High-level introduction to the corresponding SDG and exploration of the topics covered	Online self-study course (Completion time 60 hours)	Course achievement: Practical coursework (FFST), exercises	unmarked	2	There is a foundation course for each of the 17 SDGs on the learning

Study options	*Content*	*Study type*	*Requirements for successful completion*	*Assessment*	*Credit point*	*Comment*
	by this SDG; summarised explanation of academic overview knowledge and explanation using examples		or test? (interactive and continuous assessments)			platform. To complete the learning path, one SDG foundation course must be successfully completed.
Advanced course 1	In-depth exploration of the SDG sub-topic, explanation, comparison, action-oriented application and reflection of related research and development approaches	Online self-study course (Completion time 60 hours)	Course achievement: Practical coursework (FFST), exercises or test? (interactive and continuous assessments)	unmarked	2	To successfully complete the learning path, students must complete two advanced courses of their own choosing.
Advanced course 2	Exploration of the SDG sub-topic, explanation, comparison, action-oriented application and	Online self-study course (Completion time 60 hours)	Course achievement: Practical coursework (FFST), exercises or test?	unmarked	2	

Study options	*Content*	*Study type*	*Requirements for successful completion*	*Assessment*	*Credit point*	*Comment*
	reflection of related research and development approaches		(interactive and continuous assessments)			
'Challenge'	Working on a case study relating to current, real and relevant challenges and issues in the subject area of the respective SDG	Supervised (partially) synchronous project/problem-based class in face-to-face or hybrid format with compulsory attendance (Completion time 90 hours)	Examination: FFA (presentation of the solution(s) or the solution approach including process reflection (together and/or in the group), a technical discussion with the teacher or a written essay)	unmarked;	3	If the 'Challenge' is taken to obtain the certificate, the student must ensure as much thematic coherence as possible between the foundation course and advanced courses, as well as the 'Challenge'.

5. The 17 SDGs (Sustainable Development Goals):

SDG 1 – No poverty

SDG 2 – Zero hunger

SDG 3 – Good health and well-being

SDG 4 – Quality education

SDG 5 – Gender equality

SDG 6 – Clean water and sanitation

SDG 7 – Affordable and clean energy

SDG 8 – Decent work and economic growth

SDG 9 – Industry, innovation and infrastructure

SDG 10 – Reduced inequalities

SDG 11 – Sustainable cities and communities

SDG 12 – Responsible consumption and production

SDG 13 – Climate action

SDG 14 – Life below water

SDG 15 – Life on land

SDG 16 – Peace, justice and strong institutions

SDG 17 – Partnerships for the goals

In the learning pathway, there are various advanced courses to choose from, from which learners must select and successfully complete two according to their own interests in order to complete the learning pathway.

More information about the SDGs is available online: https://17ziele.de/ and https://www.bmz.de/de/agenda-2030.