



Knowledge & Creativity  
European University



## D2.1

# KreativEU Transnational Course Catalogue

Version 2.0 | December 2025



Co-funded by  
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## 2.1 KreativEU Transnational Course Catalogue

<b>Project Acronym:</b>	KreativEU
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<b>Deliverable:</b>	D2.1 KreativEU Transnational Course Catalogue
<b>Contractual date:</b>	Version 1: 31 Aug 2025 (M8); Version 2: 31 Dec 2025 (M12)
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<b>Work Package:</b>	WP2 – Education
<b>Task:</b>	T2.1 – Development of transnational and interdisciplinary KreativEU label courses, certified with ECTS and micro-credentials as appropriate, on culture, identity, memory, heritage and ecocultural identity for use in degree programmes, LLL programmes and summer schools
<b>Version:</b>	2.0
<b>Contributors:</b>	This deliverable was produced by the KreativEU WP2 Team (led by the Universität Greifswald and the Universitatea Valahia din Târgoviște) with contributions from all partners.
<b>Description:</b>	In this first edition of the course catalogue, all courses offered under the KreativEU label will be listed in a database hosted on KreativEU digital infrastructure (WP6) and via the course information platforms of the member institutions. The course catalogue will be accessible externally, so that people interested in gaining micro-credentials can select appropriate courses. Over time, the number of courses in the catalogue will grow. There will be two editions of the catalogue per year.
<b>Dissemination level:</b>	PU – Public

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## Table of Changes

VERSION	DATE	CHANGE	JUSTIFICATION
2	12 Dec 2025	Inserting task related to which the Deliverable is related, namely T2.1	Compliance with the EACEA Project Officer's feedback
2	12 Dec 2025	Throughout text of the deliverable: Substitution of "Project management" by "Coordination of ..." and concrete information of what has been coordinated or will be coordinated: the CC updates (A, 4.1), the application updates (A, 5.1), the CC development (B, 1.1)	Compliance with the EACEA Project Officer's feedback
2	12 Dec 2025	Part A, p. 4: correction of English name of ATU	Request by ATU WP2 Representative
2	12 Dec 2025	Part A: insertion of Introduction, comprising content of newly developed scope of KreativEU as a whole and what used to be covered in No. 2 Scope	Compliance with the EACEA Project Officer's feedback, also incorporated in KreativEU Template for Deliverables, the latter having been approved by the Steering Committee on 2 October 2025
2	12 Dec 2025	Part A: Chapter 1, comprising what used to be covered in No. 4.1 Product: The Course Catalogue	Compliance with the EACEA Project Officer's feedback, also incorporated in KreativEU Template for Deliverables, the latter having been approved by the Steering Committee on 2 October 2025
2	12 Dec 2025	Part A: Chapter 2, comprising what used to be covered in No. 4.2	Compliance with the EACEA Project Officer's feedback, incorporated in KreativEU Template for Deliverables
2	12 Dec 2025	Part A, Chapter 2.1: additional information on Round Robin method	Method incorporated in programming after the first launch of the Course Catalogue on 29 August 2025
2	12 Dec 2025	Part A, Chapter 2.5 Maintenance and risk management: addition of new sub-chapter and content	Compliance with the EACEA Project Officer's feedback
2	12 Dec 2025	Part A, Chapter 2.6 Data privacy: addition of new sub-chapter and content	Compliance with the EACEA Project Officer's feedback



			2025.
2	12 Dec 2025	Part B, No. 1.2.2, paragraphs 3-5 + figure 4: additional details regarding adherence to current industry standards and best practice including the use of the Chrome Lighthouse tool in order to meet Web Content Accessibility Guidelines (WCAG)	Compliance with the EACEA Project Officer's feedback
2	12 Dec 2025	Part B, No. 2: comprising what used to be covered in No. 7.2 Future Improvements on the KreativEU Transnational Course Catalogue	Compliance with the overall structure of the KreativEU Template for Deliverables approved on 2 October 2025.
2	12 Dec 2025	Part B, No. 2: additional aspects to be considered during updating the Course Catalogue, not only but also more explicitly referring to the collaboration with WP6	Compliance with the EACEA Project Officer's feedback
2	12 Dec 2025	Part B, No. 3: comprising what used to be covered in No. 7.1 Impact on UG in Germany (7.1.2), KreativEU and partners (7.2.2), Higher Education in the EU (7.2.3)	Compliance with the overall structure of the KreativEU Template for Deliverables approved on 2 October 2025.
2	12 Dec 2025	Part B, No. 3.1: providing individual entries of all partners on added value for their respective university	Compliance with the EACEA Project Officer's feedback and with the request by all partners stated during WP2 meeting on 16 October 2025



## PART A: THE DELIVERABLE

### 1 Acronyms and Abbreviations

Acronym / Abbreviation	Full Term
Benef.	Beneficiary
GB	Government bodies
ATU	ADANA ALPARSLAN TÜRKİŞ BİLİM VE TEKNOLOJİ ÜNİVERSİTESİ - Adana Alparslan Türkeş Science and Technology University, Türkiye
BUas	BREDA UNIVERSITY OF APPLIED SCIENCES, Netherlands
IPT	INSTITUTO POLITÉCNICO DE TOMAR - Polytechnic University of Tomar, Portugal,
OUTech	POLITECHNIKA OPOLSKA – Opole University of Technology, Poland
SH	SÖDERTÖRNS HÖGSKOLA - Södertörn University, Sweden
TAE	СТОПАНСКА АКАДЕМИЯ „ДИМИТЪР А. ЦЕНОВ“ - D. A. Tsenov Academy of Economics, Bulgaria
TUT	TRNAVSKÁ UNIVERZITA V TRNAVE – University of Trnava, Slovakia
USB	Jihočeská univerzita v českých budějovicích - University of South Bohemia in České Budějovice, Czechia
UNICAM	UNIVERSITÀ DEGLI STUDI DI CAMERINO - University of Camerino, Italy
UG	UNIVERSITÄT GREIFSWALD - University of Greifswald, Germany
VUT	UNIVERSITATEA VALAHIA DIN TÂRGOVIȘTE - Valahia University of Targoviste, Romania
WP	Work Package
WP1	Work package 1 - Governance and Management;
WP2	Work package 2 - Education;
WP3	Work package 3 - Research;
WP4	Work package 4 - KreativEU Culture with and for society;
WP5	Work package 5 - KreativEU knowledge-creation and design network on smart sustainability;
WP6	Work package 6 - KreativEU Heritage European campus;

<b>Acronym / Abbreviation</b>	<b>Full Term</b>
WP7	Work package 7 - KreativEU Mobility;
WP8	Work package 8 - KreativEU communication, dissemination, exploitation.
WP_Co-Leaders	Work Package Co-Leaders
WP_Leaders	Work Package Leaders
WP_Team	Work Package Team
CC	KreativEU Transnational Course Catalogue

## 2 Executive Summary

This document details the development of the KreativEU Transnational Course Catalogue (CC), a key deliverable within the KreativEU European University Alliances. The CC aims to enhance student mobility, facilitate transnational collaboration between academic staff and serve as a scalable model for digital transformation within European Higher Education. The University of Greifswald (UG) took primary responsibility for its development.

### *Methodology & Development*

The development of the CC lasted eight months, involving monthly meetings with all project partners and regular input from WP6, which focuses on the KreativEU Infrastructure. A key decision was to ensure open access to the CC by avoiding login requirements. The development process included defining common data formats, designing a user-friendly interface and building a robust technical pipeline for data import. Student feedback was actively sought during the process.

### *Technical Design*

The CC is a web-based application built by using modern technologies: Next.js (React framework), TypeScript, and Docker for containerization. A core element is the data pipeline, which transforms course data from various university systems into a standardized JSON format. Pydantic was used for data validation and schema definition. The pipeline currently utilizes a local setup at UG, with plans to migrate to the central KreativEU Digital Infrastructure (D6.3) by December 2026. An easily accessible form allows individual course additions outside the automated pipeline.

### *Key Features & Functionality*

- Standardized Data Format: JSON schema for consistent data exchange.
- Automated Data Pipeline: For importing course data from partner institutions.
- User-Friendly Interface: Designed with input from students and staff.
- Open Access: No login required for external access.
- Manual Course Addition: Form-based entry for individual courses.

### *Impact & Future Improvements*

The CC is expected to significantly improve student mobility and collaboration within the KreativEU consortium. The CC also aims to create a scalable model for other European Higher Education Institutions. Future improvements include enhanced test coverage, comprehensive documentation, improved accessibility (WCAG compliance), and integration of AI for personalized course recommendations. The development of this catalogue is considered a pioneering effort in data interoperability within the alliance. Regular updates will be performed twice per annum, informed by user feedback.

### Links

- CC Website: <https://kreativeu-course-catalogue.nube.uni-greifswald.de/>
- KreativEU Website: <https://www.kreativeu.org/en/education/courses/>

## 3 D2.1 KreativEU Transnational Course Catalogue

### Introduction

#### The KreativEU Project

The eleven Universities forming the KreativEU consortium agreed to the common goal of establishing a fully European University, which places the creative potential derived from Europe's cultural heritage at the heart of its teaching, research and knowledge transfer activities.

Committing to a long-term institutional, structural and strategic cooperation, the partners will jointly implement an ambitious yet inclusive vision for transforming the study of culture, identity, memory and heritage for the benefit of society.

Building upon this strong foundation, KreativEU will provide innovative concepts, methods, and solutions to address both current and future challenges, contributing to a sustainable and harmonious future for communities and the environment alike.

KreativEU recognizes the inseparable interconnection of tangible and intangible cultural heritage, as well as the interwoven nature of local and national traditions, crafts, cultural practices, and folklore.

The alliance is dedicated to formulating cutting-edge educational and research programmes that re-evaluate these elements and their associated ecological surroundings, the lived environment, especially in the context of the digital age. This ecocultural vision serves as the foundational principle guiding KreativEU's efforts, ensuring that a new generation of EU citizens working together across cultures, borders, languages, sectors and disciplines will be educated. Students from the KreativEU are expected to be leaders of change and enablers of societal transformation.

To reach this vision, the KreativEU Alliance will work towards the completion of 8 work packages (WP1 - Governance and Management; WP2 - KreativEU Education; WP3 - KreativEU Research; WP4 - KreativEU Culture with and for society; WP5 - KreativEU Knowledge-creation and design network on Smart Sustainability WP6 - KreativEU Heritage European campus; WP7 - KreativEU Mobility; WP8 - Communication and Dissemination).

#### Aim and Scope of the Deliverable

According to the Description of Action in the Grant Agreement, the KreativEU Transnational Course Catalogue (CC) is supposed to provide a comprehensive survey of courses offered in English at the KreativEU partner institutions. It is a database that is to be hosted on the KreativEU digital infrastructure developed as part of the WP6 KreativEU Heritage Campus. Besides this central access, partner institutions are to provide access to the CC on their websites and course information platforms. Hence, external users may select courses and thus pursue Lifelong Learning offers at the

KreativEU partner institutions. After the initial establishment of the CC with the courses available at its launch in August 2025, the partner institutions are to expand the range of courses offered and to update the CC in two editions per year.

On the basis of these objectives, the WP2 Team and UG, the main developer of the Course Catalogue, embarked on developing an externally accessible online database, in which all courses in English of all partner institutions can be uploaded. As D6.3 KreativEU Digital Infrastructure is still under construction as it is due by month 24 (December 2026) only, UG decided to temporarily host the database on their server. The database will be moved to KreativEU Digital Infrastructure by month 24. KreativEU and UG also prepared a procedure by which major updates of the catalogue will be performed twice a year using a pipeline. An alternative procedure for minor updates utilising an online form has also been launched.

The major goal of the KreativEU Transnational Course Catalogue is to ensure that all courses in English are easily available and accessible for present and prospective KreativEU students of all cycles as well as potential attendees of Life Long Learning educational offers. It serves two purposes, namely advertising the courses on offer and providing substantial and comparable information on the courses. The external accessibility will also allow HEIs in Europe to assess the tool and approach KreativEU if they are interested in establishing a similar course catalogue at their individual institutions or in their European University Alliances.

## Chapter 1: Links to the Course Catalogue<sup>1</sup>

The KreativEU Transnational CC can be directly accessed via the following link:

- <https://kreativeu-course-catalogue.nube.uni-greifswald.de/>

The link can be found on the main KreativEU website:

- <https://www.kreativeu.org/en/education/courses/>

Likewise, the CC can be reached via all local websites:

- ATU: <https://disdestekliprojeler.atu.edu.tr/#!/haber/ce294772-f054-424c-bd92-faa5fe0bb735>
- BUas: <https://www.buas.nl/en/about-us/global-engagement/kreativeu>
- UNICAM: <https://www.unicam.it/internazionale/kreativeEU/education>
- IPT: [https://portal2.ipt.pt/en/kreativeu/catalogo\\_de\\_cursos/](https://portal2.ipt.pt/en/kreativeu/catalogo_de_cursos/)
- OUTech: <https://po.edu.pl/konsorcjum-kreativeu/>
- SH: <https://www.sh.se/english/sodertorn-university/student/opportunities-resources-and-rights/exchange-within-kreativeu>
- TAE: <https://www.uni-svishtov.bg/en/KreativEU-alliance/scope/education-13367/course-catalogue>
- TUT: <https://www.truni.sk/kreativeu>
- UG: <https://www.uni-greifswald.de/en/international/international-profile/kreativeu/lehre/studierende/>
- USB: <https://www.icu.cz/cz/mezinarodni-spoluprace/zpravy-a-aktuality>
- VUT: <https://www.valahia.ro/en/students/kreativeu-courses/>

In addition, administrative and academic staff may use the following link to the form by which they may enter information on a course manually:

- <https://kreativeu-course-catalogue.nube.uni-greifswald.de/form>

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<sup>1</sup> All links were last tested on 28 November 2025.

## Chapter 2: Description of the user interface

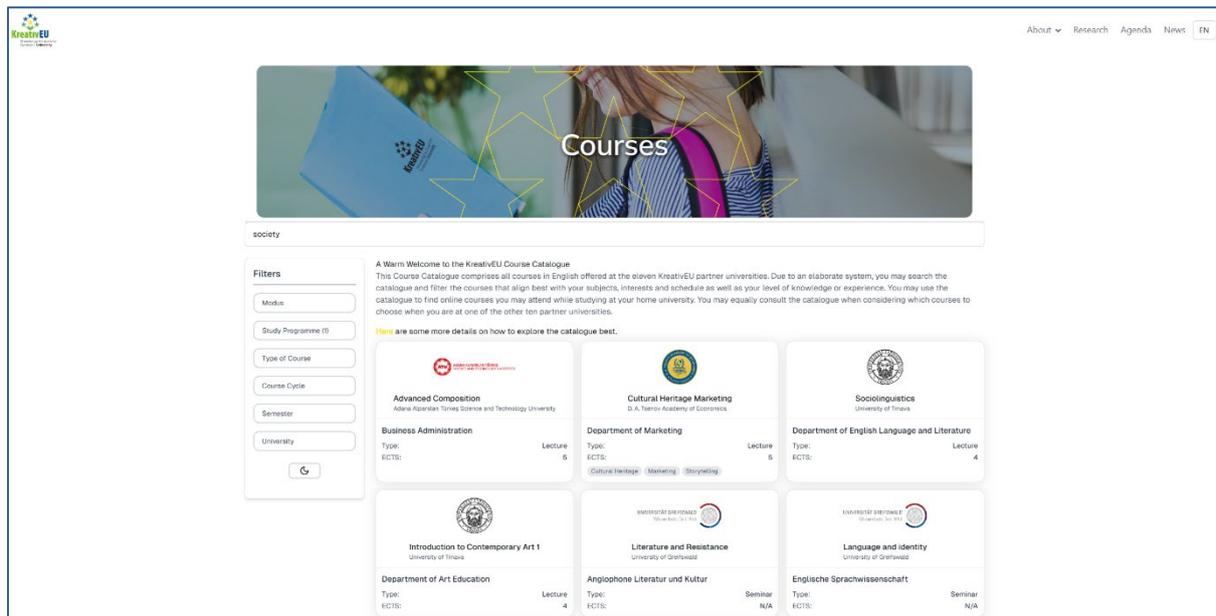


Fig.1: CC screenshot of the landing page (27 August 2025).

### 2.1 Structure

Considering the structure of the CC, the landing page consists of a header, a footer, a sidebar and the main part starting with an introduction contextualising the CC and providing some guidelines for the users.

The main part comprises courses of all universities selected by the so-called Round Robin method. This ensures that there is an equal representation of all universities and their courses on the first page. This method was introduced in October 2025, i.e. after the first launch.

The header includes the KreativEU logo, links and a banner with the heading.

The sidebar contains a selection of the most essential filters, which is based on the data items the WP2 Team and the students considered relevant for searching the data base as detailed in Annex 1. It also adds a button to toggle between light and dark mode.

All data items are explained via tooltips and explanations in a separate drawer menu.

The main part encompasses a search, and the course cards are displayed. The heading of these cards includes the course title and the name / abbreviation of the partner institution. The sub-heading comprises the field of study. The quick info on the card contains the type of course, the credit points that may be earned with the successful completion of the course and the term in which the course is offered. At the bottom of the card, relevant key terms are provided. The card is clickable; the URL behind the click takes the user to a local URL with detailed information on the course.

In general, the app displays times as local times of the users' home country and university. Accordingly, students, for instance, immediately see whether an online course on offer in a different place and time zone still fits their schedule at their home university. However, when planning their stays abroad, they need to calculate what the times mentioned actually mean for their participation in the respective course at the receiving university.

## Pedagogical challenges: Sustainability and Social Justice in a Globalised World

Södertörn University  
Department: Teacher Education | Local Code: PE006G



### Course Details

ECTS Credits:	7.5	Language of Instruction:	English
Mode of Delivery:	In-person	Study Programme:	Bachelor
Type of Course:	Seminar		

### Course Content

The course advances the students' knowledge of education as a scholarly subject by focusing on research about the educational challenges that arise in a globalised society, such as issues relating to interculturality, citizenship, and individual participation in society. Structures and practices that maintain inequality and discrimination are problematised and analysed, at both structural and individual levels. Studies in this field are characterised by an interest in individual emancipation through educational processes. There is particular emphasis on educational issues in relation to the theme of the course, and on training the students' analytical skills. In addition, the course covers the foundations of scholarly theory and introduces narrative inquiry as a research method. Entry requirements: Education A, 30 credits and English 6, or the equivalent. Examination format: The course is examined through individual written hand-in assignments, participation in seminars, an oral presentation in groups and a written take-home exam. Absence from a maximum of one seminar can be compensated for through a written assignment in accordance with instructions from the course coordinator. The grading criteria are distributed prior to the start of a course or module. If a student has a certificate from Södertörn University for compensatory support, the examiner has the right to decide on an adapted examination or alternative form of examination in accordance with Södertörn University's regulations.

### Learning Outcomes

[View on Local University Website/Catalogue](#)

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Fig.2: CC screenshot of a course card (8 December 2025).

The footer comprises the legal and data protection notices as well as the EU logo and disclaimer.

The header and footer are the same for all pages including all detailed pages.

## 2.2 Access

There is public access to the CC via the above-mentioned URLs on the KreativEU as well as all partner institutions' websites.

## 2.3 Offer

The CC is a centralised hub for providing information on courses and facilitating the search for courses.

## 2.4 Users

Accordingly, there are two primary groups of users:

- 1) Students;

## 2) Academic staff.

Students may easily search for courses at the partner institutions via this application and will do so by making use of the interface described above.

Academic staff may easily create information on courses in the CC by using the form equally described above.

In addition to students and academic staff, also external users interested in Life Long Learning may inform themselves.

## 2.5 Maintenance and risk management

The CC web application is built within a container. The code is versioned. New features are implemented and automatic tests ensure that the application's functions are working correctly. The functions are also tested manually.

The platform can be triggered to pull a new image from the registry and update the online CC application. As a result, the application can be updated securely with minimal downtime. These processes are automated and require minimal user input.

The above combined best practices are often referred to as continuous integration and continuous delivery (CI/CD), or less often continuous deployment.

The container itself is orchestrated by a Kubernetes system, which manages its scaling and deployment. This system is robust and resilient to hardware errors. For instance, if an application fails due to a server malfunction, this is automatically identified. Consequently, the application is transferred automatically to another machine within the Kubernetes cluster.

## 2.6 Data privacy

### 2.6.1. Statistics and tracking of users

When tracking course access, only anonymous, aggregated statistics will be collected, meaning that data cannot be linked back to individual users. The data collected includes total course access numbers and access figures per course. Neither individual user behaviour nor personal information will be tracked. Such a collection of data helps to understand course popularity without compromising privacy.

### 2.6.2. Students' registrations for courses

Currently, it is not possible to log in and register for courses within the KreativEU catalogue. Registration is handled by the host institution, meaning no information is collected. In its current state, the catalogue only serves an informational purpose.

## Chapter 3: Analysis of the Content of the Course Catalogue

### 3.1. Courses

#### 3.1.1. Quantity

At its launch, the CC comprised all in all 3,348 entries. Ideally all partners would have used the pipeline developed for the CC and provided the entire collection of courses taught in English. Still, every partner institution had uploaded several courses and thus experienced the method and the benefit of providing information on courses in the alliance-wide CC.

At the time of the second version of this documentation, the overall number of courses is distributed among the partner institutions as follows:

University	Number of courses	Percentage
ATU	2,849	85.10%
BUas	5	0.15%
IPT	12	0.36%
OUTech	177	5.29%
SH	10	0.30%
TUT	4	0.12%
TAE	6	0.18%
UG	247	7.38%
UNICAM	5	0.15%
USB	5	0.15%
VUT	28	0.84%

As the table proves, there is a substantial difference of number of entries among the eleven partners. There are various reasons for this:

Firstly, there is one university in the alliance, namely ATU, in which the language of tuition is English. Accordingly, all courses of the university were uploaded to the CC. In contrast to this, the main language of tuition in all other universities is the respective mother tongue, and differing percentage of courses is taught in English.

Secondly, at the time of the launch three universities, i.e. ATU, OUTech and UG, were ready to use the pipeline, thus being able to provide all courses that carry the label of course taught in English in the local system being automatically detected and then transferred into the CC. The other universities used the method of manually filling in the form provided for individual registration of courses. Universities such as IPT and VUT provided all their courses in English; others provided only a small number to ensure that courses of all universities had been uploaded.

Thirdly, what has also become apparent is the fact that universities apply different methods in registering courses locally. At UG, for instance, a course of the same title, course objectives and learning outcomes which is offered several times by different teaching staff is entered into the local catalogue as one course with one course ID and several groups taught by one or more staff. At ATU,





Perceived ease-of-use: Users can easily use the CC on different devices, for instance smart phones, tablets and personal computers, as the data base adjusts to the device used. Content is also easily readable as font type, font size and the contrast between font colour and background are appropriately selected. As stated before, it allows changing between light and dark mode. Moreover, the courses of the partner institutions can be easily detected due to the incorporation of the university logos.

Perceived usefulness: Students and academic staff alike have uttered that indeed such a comprehensive course catalogue is useful for their respective purposes. The search function is equally crucial to the usefulness of the course catalogue as it allows clearly targeted searches. Students may obtain an oversight over courses of their subject(s) and discipline(s) and may on the basis of the search result select the partner institution at which they may complete a semester abroad; alternatively, they may find courses they may attend from home, thus allowing for internationalisation at home. Teaching staff may find courses and thus colleagues teaching similar courses, this being the starting point for collaboration and the design of a KreativEU Label Joint Course.

User acceptance: This criterion will be relevant for structured evaluation of the CC during the months and years following its launch. It will be essential to have all user groups evaluate the CC on a regular basis and including this feedback in the further development of the CC via the half-year updates.

### 3.3 Visibility

Even before its launch, the CC was advertised via the main article of the [second KreativEU Newsletter of 22 July 2025](#). With its launch on 28 August 2025, the news was spread on the [KreativEU Website](#) and all local websites, among them the [UG website](#). Mails were sent to WP2 Team members with the request of distributing the information and link locally among students and academic staff via mailing lists. In a second step, Social Media posts were disseminated on Facebook and LinkedIn via the KreativEU and partner channels. Thus, visibility was reached during the launch.

The WP2 Team will ensure that information on the updates of the CC will reach students, staff and external people interested in the Lifelong Learning offers of KreativEU. For this, they will closely collaborate with the WP8 Team and benefit from their expertise in effective dissemination of information among KreativEU members and external stakeholders.

## Chapter 4: Updating the Course Catalogue Data

### 4.1 Coordination of the CC updates

As stipulated in the Grant Agreement, the CC will be updated twice a year. This task should ideally be accomplished well in advance before students start choosing their courses for the next semester. To do so, however, poses rather a challenge especially in relation to the start of the spring or summer semester. Whereas, for instance, at SH the second semester of the academic year commences already at the end of January, at UG the spring / summer semester starts at the beginning of April only. Moreover, at universities such as VUT, students are provided with information on the courses in both semesters at the beginning of the academic year, which means that updates on both semesters would need to be available well before October.

To harmonise the diverging needs of the partners, the WP2 Team agreed upon the semi-annual updates to be accomplished by end of January and end of July. These months have been selected to ensure that students are informed well in advance before the start of the next semester. If students require information on both semesters before the start of the academic year, they may rely on the details on spring or summer semesters as provided during the last January update. All in all, similar to other aspects of the CC, this timing of updates will be part of the assessment of the CC and may be modified during the major updates if requested.

In order to initiate the updates, the WP2 Team Members will inform their IT experts by mid-December and mid-June respectively that the next update of the KreativEU Transnational Course Catalogue needs to be performed by mid-January and mid-July respectively. This will allow them to perform the local updates before, in a second step, initiating the transfer of the data to the central CC via the pipeline.

As the UG developer will remain responsible for the CC, they will inform the WP2 Team Members once the overall update has been accomplished. The WP2 Coordinators will then inform the WP8 Team and ask them to disseminate the information on the central and local websites. In addition, messaging via the social media will be especially crucial to ensure that the main end-users, i.e. the students, are reached.

In addition to the semi-annual update, updates via filling in the form will be possible. This step will be taken if, for instance, courses have been newly developed and can only be announced after the major update via the pipeline. All in all, this allows for immediate updates and to include KreativEU-only courses that are not yet available in either local course catalogues. Academic or support staff may fill in the form, upload the latest information at any time as the form will remain constantly accessible and upload the data to the storage. The information on new courses will be retrieved, checked and transferred to the CC on a weekly basis.

A KreativEU organisation was established within the Gitea service provided by UG. Current members of the KreativEU team have full access to all course data and are responsible for updating it.

Members from partner universities can access their course data for reading and updating purposes only.

## 4.2 Technical steps

As stated above, data updates align with the project timeline and EU compliance requirements. For each semester the CC will be updated with the latest data from the local catalogue systems.

The time designation of the course data should be in UTC. In other words, local times must be converted to UTC, given that the partners are spread across four time zones. This allows the students to easily schedule their courses within the user interface.

### 4.2.1 Bi-annually major updates for new course listings and curriculum changes

Data is loaded into the application via a JSON file in the KreativEU-compatible format. The schema or definition of the JSON file allows to check whether the provided data format is valid. The pipeline repository contains exemplarily a data pipeline to transform data from the “Hochschulinformationssystem” (HIS), which is the common provider of course data in Germany, into the KreativEU-compatible JSON format, including the conversion of the local times. Each university already adapted their pipeline to their own original data format. During the updates, however, the partners need to ensure that their data pipeline still works. Updates in the central and local systems might require adaptations.

### 4.2.2 More frequently performed minor updates for corrections, additions, and metadata refinements

As stated, data can be updated through a form-based interface. Securely transferring course data files is important. The initial plan is to use the Gitea<sup>2</sup> server at UG for data storage. Data transfer is secured using either the SSH<sup>3</sup> or HTTPS protocols. Data is securely stored and managed within the UG platform. The platform also allows users to view the data and its history. This makes checking updates simpler.

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<sup>2</sup> <https://about.gitea.com/>

<sup>3</sup> [https://en.wikipedia.org/wiki/Secure\\_Shell](https://en.wikipedia.org/wiki/Secure_Shell)



## KreativEU Course Catalogue Form

🔄

**Welcome to the KreativEU Course Catalogue Form**

This form has been developed to allow you as academic or administrative staff to upload information on individual courses to the KreativEU Transnational Course Catalogue. You may intend to do so because you have developed and would like to advertise a course between the two major updates of the platform. Alternatively, you may intend to inform the WP2 Coordinators about a joint course you intend to develop with a KreativEU partner university. Only in the latter case will you provide the information in the second part of the form.

**General Information**

Course Name  
Heritage

University

Local Course Code

Department / Field  
Adana Alparslan Türkeş Science and Technology University  
Breda University of Applied Sciences  
D. A. Tsenov Academy of Economics  
Opole University of Technology  
Polytechnic University of Tomar  
Södertörn University

Link to Course Website/Catalogue

**Course Description**

Course Content  
University of Camerino  
University of Greifswald  
University of South Bohemia in České Budějovice  
University of Trnava  
Valahia University of Targoviste

Learning Outcomes

Literature & Course Materials (Optional)

**Course Details**

Type of Course  
Lecture

Modus  
In-person

Study Programme

ECTS Credits (Optional)

Student Workload (hours) (Optional)

Language of Instruction  
English

Fig.3: CC screenshot of the online form (27 August 2025).

## Chapter 5: Updating the Course Catalogue Application

### 5.1 Coordination of the application updates

The WP2 Coordinators and Team will not only ensure that the CC remains updated in terms of the information on courses provided. They will also look into updating the platform in relation to needs of the users and technical advancements.

Regarding the needs of the end-users, i.e. students and academic staff, the WP2 Coordinators will schedule a meeting with student representatives in October and March of every year so that they may provide feedback on their usage of the CC. In addition, the WP2 Team will add the CC to their agenda in their November and April meetings so that WP2 Team Members may report on requests for changes that have reached them within their institutions and the students' suggestions can be discussed. The university and person in charge of the CC will attend these meetings so that they may be consulted about the requested changes. The WP2 Team approve the amendments, and the IT expert will complete the amendments accordingly.

### 5.2 Technical steps

During the initial phase of the platform during which the CC is hosted on UG premises and not yet hosted by KreativEU, UG will accomplish technical updates, data pipeline maintenance and compliance checks. UG is legally obliged to check the data for inappropriate and offensive content as long as the UG platform is used.

#### 5.2.1 Description of the software update and deployment process

The code of the application is version controlled.

The code repository is, as stated, temporarily hosted on a Gitea instance at UG. The repository can be made public. Due to the fact that the CC application has been developed in a containerised environment using Docker, it is designed to be easily deployable and maintainable.

Two scenarios have been envisaged for this:

1. The CC will be moved to its permanent host with the establishment of D6.3 KreativEU Digital Infrastructure and Platform.
2. Another HEI or EUA intends to set up a similar CC.

Currently, there is a Makefile for building the application and generating the Docker image. This image can then be pushed to the UG image registry. The UG Computing Centre uses their 'Nube' platform, Spanish for 'cloud', to securely host containerised applications. In other words, the application is orchestrated by a Kubernetes system, which manages its scaling and deployment. The system is robust and resilient to hardware and software errors. For example, if an application fails due to a server failure, this is automatically detected. Consequently, the application is automatically transferred to another machine within the Kubernetes cluster. This platform provides automatic TLS/SSL termination to secure user communication.

The platform can be triggered to pull a new image from the registry and update the online CC application. As a result, the application can be updated securely with minimal downtime. These processes are automated and require minimal user input.

The above description of the CC refers to its current status. During the lifespan of the project there will be updates and enhancements based on feedback and technological advancements. There is a necessity for frequent updates in order to remedy performance issues, security updates and other technical challenges.

The update process will align with the goals and technical demands of KreativEU's central platform. The CC developer is a member of WP6, whose task is to provide the central platform. This will facilitate the exchange of information when the permanent platform is being set up and will consequently lead to a smooth transition at the end of 2026.

## Conclusion

The KreativEU Transnational Course Catalogue has taken shape as a central component of the broader KreativEU alliance, aiming to establish a truly integrated European University with a strong focus on culture, identity, and heritage. It is designed to be more than only a listing of courses; it is envisioned as a facilitator of student mobility, a showcase for the innovative educational approaches within the consortium and, potentially, a model for other European University Alliances.

The catalogue serves as a database providing information on courses in English offered across all eleven partner institutions. It is intended for current and prospective students as well as those interested in lifelong learning opportunities. At present, it is still hosted on the University of Greifswald's infrastructure. It will be moved to the KreativEU Digital Infrastructure by month 24 (December 2026), i.e. the month of completion of said infrastructure.

The catalogue prioritises a user-friendly interface, featuring search filters to easily navigate course offerings and detailed course cards providing essential information such as title, institution, field of study, credit points, and term. Another key component of the CC is its dual-entry system consisting of an automated pipeline for institutions able to export data and a manual form for those still developing automated systems. Currently, three institutions – ATU, OUTech, and UG – have successfully implemented the pipeline, with ongoing support provided to others. Beyond the technical aspects, significant attention is paid to data privacy, with plans to only track anonymous, aggregated statistics to understand course popularity without compromising individual user information.

The CC will be updated bi-annually. The updates are scheduled at the end of January and July respectively to align with key student planning periods. It also comprises a complementary system for more frequent manual updates to address any urgent changes or new course offerings. It will constantly be improved on the basis of the feedback of users as well as IT experts. Several aspects have already been identified, for instance the harmonisation of data standards across institutions. Differences in how course information is represented locally pose a challenge for integration. Regarding the courses listed, the WP2 Team has agreed upon reconsidering the selection of courses provided once all courses in English have been imported, potentially highlighting those most closely aligned with the KreativEU alliance's focus on cultural heritage and ecocultural identity.

All in all, the technical design of the CC allows for long-term sustainability: The CC utilises containerisation technology (Docker) and Kubernetes orchestration to ensure the application is robust, scalable and easily maintainable. A CI/CD pipeline has been implemented to automate updates and deployments. The long-term vision is for the catalogue to be fully integrated into the central KreativEU Digital Infrastructure, paving the way for potential adoption by other European University Alliances seeking a similar solution. This ultimately aims to create a dynamic and accessible resource for students and institutions across Europe, fostering collaboration and a shared commitment to cultural heritage and innovative education.



representatives of the end-users, students and academic staff alike. On the one hand, such feedback was obtained through the close exchange of ideas and information with the WP6 Coordinators. On the other hand, a separate meeting was conducted with the IT experts of all partner institutions. Here the technical design was discussed including the pipeline and form by which data would be imported into the database of the CC.

The close exchange with the WP6 Coordinators, also secured by the fact that the UG developer is the UG member of the WP6 Team, had made it evident from quite early on that the application would need to be temporarily hosted locally, i.e. on the UG server, as long as D6.3, i.e. the KreativEU Infrastructure, had not been established yet. This infrastructure would be due and thus available by month 24, i.e. December 2026 only.

The WP2 Team and the Coordinators alike felt the need of including students in the development of the CC as they would be the primary users. The meeting took place on 9 July 2025, and the students provided the following valuable feedback: they acknowledged the work that had been done to make the courses accessible. While they appreciated the clean design, they requested the inclusion of more colours and a larger font size. They were also interested in how the CC was to be incorporated into the KreativEU webpages as they were eager to remain informed about the CC.

During the last two meetings before completion in July and August 2025, it was relevant to agree upon the procedure for updating the CC data and to jointly develop the documentation regarding the development of the data base. Moreover, the two meetings served the purpose of obtaining approval by all partners.

## 1.2 Technical design

Although the time frame was rather limited and comprised only eight months up to August 2025, the WP2 Team nevertheless agreed upon creating a web version of the CC. During the first meetings it became evident that in a joint project the data protocol, i.e. the way in which data will be exchanged between different partners, needed to be defined. Thus, the task of creating a CC involved two steps:

1. Definition of a common data format and pre-processing of CC data that will be used by all partners to exchange course information.
2. Development of the web application itself.

Each university uses a different data model for its catalogue. These data need to be mapped into a common format that can be used by all partners. It is each partner's duty to provide such a mapping.

### 1.2.1 Pipeline for importing courses and JSON definition

The data format is a JavaScript Object Notation (JSON) file that is structured according to a JSON schema. JSON is a standard format for the exchange of data. It was chosen due to its simplicity and readability. In addition, JSON can be processed by many programming languages and (AI) tools. This can become very useful. For instance, the local catalogue at UG comprises numerous courses taught in English which still contain a lot of German metadata. Choosing the JSON format will make it possible to automatically feed the data to AI tools in order to translate German metadata into English. This may be established as a separate pre-processing step at a later stage.





pinpointed the specific elements requiring these labels, enabling targeted improvements to be made to ensure accessibility for all users.

To improve performance, the uploaded courses are processed and the detailed course pages are generated statically. This also verifies and activates the internal links to the course data.

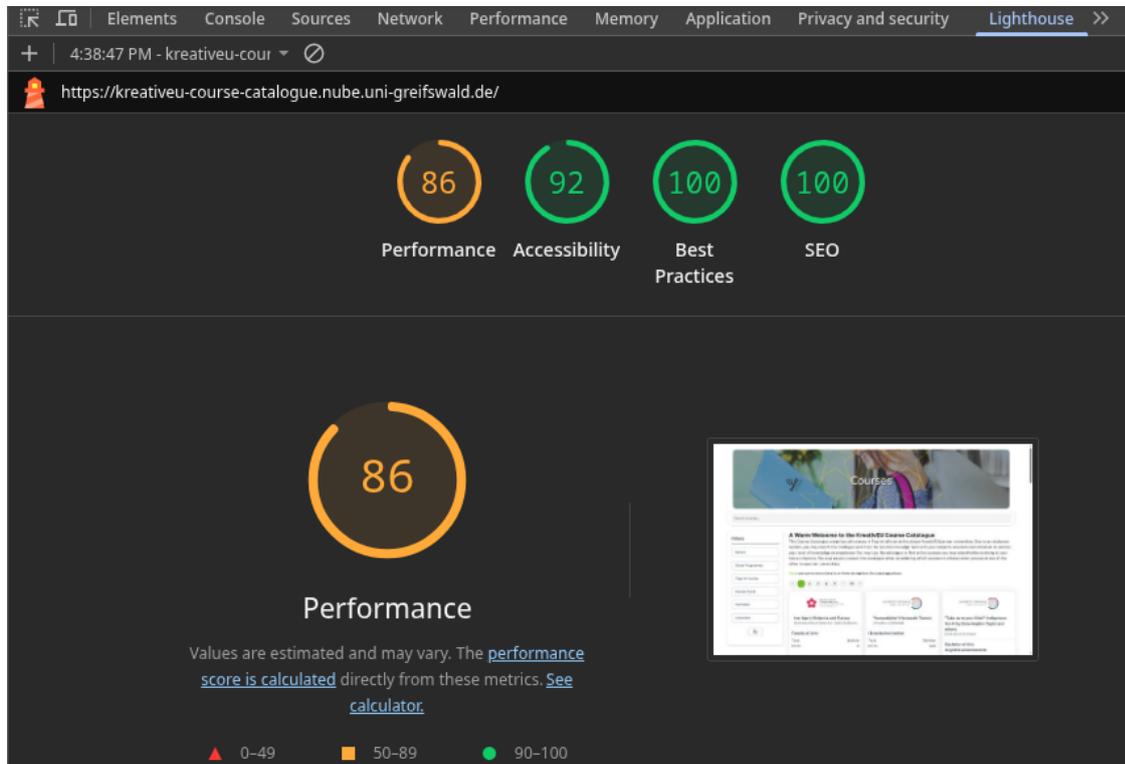


Fig.4: Screenshot of the Chrome Lighthouse tests on ,https://kreativu-course-catalogue.nube.uni-greifswald.de/“(14 October 2025).

### 1.2.3 Form for uploading details on individual courses

To help academic staff who intends to upload information on individual courses that are developed and need to be advertised between the two major updates of the platform, a simple interface within the CC web application was developed for creating course data. This form allows them to create course data in a KreativEU-compatible JSON file. Generally, this interface serves two purposes:

1. To simplify the process of creating KreativEU-only courses;
2. To ensure that all universities can provide course data in a standardized format but without the technical work to develop an automatic pipeline from their local catalogue to the central KreativEU catalogue.

Once the data elements of the common format are defined, the structure of the form follows. The type of input fields is derived from the type of data values within the format.

There is no login for the form as it is intended to return a JSON file of a single course. The staff member can copy the shown JSON object and add it to their list of courses within a file. The only sensitive information handled within the form are the lecturers' names and their email addresses. However, since this is information already publicly available in the local CCs, it is easy for the university partners to provide this information to the KreativEU in a GDPR-compliant manner. No login also means that no further sensitive data is stored which needs to be directed by KreativEU. For this application, it simplifies the legal work and backend development as it avoids unnecessary complexity in user management.

## 2 Future improvements on the KreativEU Transnational Course Catalogue

Though the CC is already fully developed and works effectively, the following steps are still planned to be accomplished during the pilot phase:

- Expansion of filters: filtering courses also by date and time to allow (part-time) students to search for suitable courses also on the basis of these data items.
- Improvement of **test coverage**: Expanded test coverage to improve the quality, reliability and maintainability of software similar to all good practice of modern software development.
- Development of **documentation**: Technical and user guides to support updates and maintenance.
- Improvement of **accessibility**: Ongoing improvements to ensure compliance with Web Content Accessibility Guidelines (WCAG).
- **AI integration**: Potential for AI-driven course recommendations and personalised learning paths since the JSON file can be read natively and processed by AI.
- **Performance optimisation**: Ongoing improvement loading times, for example by improving image delivery using modern image formats.
- Tests for **external links**: Scripts to check whether links are existing.
- **Reflection on catalogue data**:
  - o improvement of local catalogue data
  - o harmonisation of quality and quantity among KreativEU HEI
  - o basis: development of guidelines on local and alliance level
- **Anonymous course access statistics**: Total and per-course access numbers
- **Transfer of CC application to central platform**:
  - o presumable necessity of major software update since the central platform may support single sign-on, which would allow direct editing of the course data.
  - o decision whether responsibility for secure termination lies with the app or the platform.
  - o at present, WP6 in the process of establishing their schedule. Depending on this schedule, WP2 Team will proceed in relation to their planning regarding WP2 deliverables either independently or in collaboration with WP6.

As stated, users, i.e. students and academic staff alike, will be encouraged to provide feedback so that their potential needs will be catered for during the semi-annual updates of the CC.

## 3 Impact and potential for innovation

### 3.1. Added Value for the Partners

#### 3.1.1 UG in Germany: Enhanced visibility due to HIS-compatible pipeline

With successfully completing D2.1 KreativEU Transnational Course Catalogue, the University of Greifswald has taken a major step in optimising its existing digital services and establishing the first of several digital platforms that will enable the university to expand the transnational dimension in all its areas of activity, i.e. education, research and service to society. This expansion will not only enhance the visibility of UG in general. It will also establish Greifswald as a role model in technical advancement as the development of this CC, in which the partners' data are imported via a pipeline, seems to be a rather novel accomplishment. The application will be especially relevant in Germany as numerous HEI utilise the so-called HIS application as their campus management system and will potentially benefit from the UG development. The UG IT experts are pleased to share information on their CC with interested HEI in Germany and beyond.

#### 3.1.2 ATU in Turkey

Adana Alparslan Türkeş Science and Technology University (ATU) has made a substantial contribution to the KreativEU Transnational Course Catalogue, successfully integrating over 2,849 of its course details into the shared platform. This achievement marks a strategic milestone for the university, reinforcing its deep commitment to internationalisation and digital transformation within the European Higher Education Area. The CC significantly enhances ATU's global visibility by showcasing its extensive English-taught curriculum to a wider European audience.

For ATU students and academic staff, the CC serves as an invaluable resource, providing a unified and accessible interface to explore hundreds of courses across ten partner institutions. This empowers them to plan future mobility and collaborative opportunities with unprecedented ease and clarity. ATU's large-scale data contribution demonstrates its technical readiness and positions it as a key pillar in building the alliance's shared educational infrastructure, fostering a more interconnected academic landscape for future generations and KreativEU alliance.

#### 3.1.3 BUAs in the Netherlands

The shared KreativEU Transnational Course Catalogue offers BUAs a strategic opportunity to align with Dutch national infrastructure being developed through Npuls and SURF. By working towards OEAPI and EduXchange standards, BUAs is positioning itself to contribute to the "Learning Pathways" theme and prepare for the national CAMBO/Studielink renewal. This development process allows BUAs to explore expanding course access for BUAs students across eleven institutions while experimenting with emerging standards in authentication (eduID), credential recognition (Edubadges), and enrolment. The international dimension of the alliance provides valuable space to test the interoperability standards SURF promotes through European networks, making BUAs a testing ground for how national infrastructure can enhance international educational collaboration.

### 3.1.4 IPT in Portugal

The KreativEU Transnational Course Catalogue offers the international academic community a range of courses taught in English by the eleven partners of the KreativEU alliance. As for the other partners, this is an important achievement for IPT in advancing its internationalisation journey, which is one of its priorities. In fact, this is in line with IPT's internationalisation strategy related to digital transformation, student and staff mobility, as well as increased networking and collaboration with other partners.

Furthermore, this process is a first step towards future collaborations between KreativEU partners in terms of developing new offerings, from master's to joint doctoral programmes, among other international initiatives to be designed by the project members. In fact, the opportunity to join forces, resulting from the expertise of all partners, enhances the quality of the KreativEU academic offerings available through the CC.

### 3.1.5 OUT in Poland

The shared KreativEU Transnational Course Catalogue strengthens Opole University of Technology's (OUTech) international visibility and supports its strategic goals in digital transformation and student mobility. By providing a unified database of English-taught courses across the KreativEU alliance, the CC enables transparent and informed choices for both physical and virtual mobility. It enhances accessibility for international students and facilitates integration within European education networks.

For academic staff, the CC promotes cross-institutional collaboration by facilitating the identification of potential partners for joint courses, double-degree programs, and interdisciplinary initiatives. Technically, the system improves data interoperability between institutional platforms, aligning OUTech with European standards for educational data exchange.

The implementation of the CC positions OUTech as an active contributor to open, connected, and inclusive higher education in Europe—advancing digital innovation and strengthening transnational cooperation within the KreativEU alliance.

### 3.1.6 SH in Sweden

The KreativEU Transnational Course Catalogue indicates the academic role and position Södertörn University (SH) intends to take within the framework of education, scholarly teaching and internationalisation in KreativEU. Since the launch of the catalogue at the end of August 2025, SH has carefully selected and added 10 courses taught in English to the CC. The frequent contacts and regular work with the technical staff at UG have been constructive in this process.

The process of selecting suitable courses, which abide to KreativEU's general theme of cultural heritage, sustainability and memory studies, has been the guiding principle for the work done at SH.

Aside from this qualitative aspect, the administrative and technical aspects have been accomplished in cooperation with the WP6 Mobility representative at SH.

The challenge ahead is first to raise awareness about the CC, its function and ambition, and the width of the content in the catalogue among students. Secondly, the current shape and content of the CC must be viewed as a continuous project that is revised and frequently updated to meet the standards on an academic level. Finally, the outspoken ambition is that the CC shall increase awareness among students on the possibilities of mobility within the framework of KreativEU.

### 3.1.7 TAE in Bulgaria

The D. A. Tsenov Academy of Economics (TAE) has played an active role in the development and implementation of the KreativEU Transnational Course Catalogue – an initiative that enhances TAE’s visibility within the European Higher Education Area (EHEA) and supports its strategic goals for internationalisation and digital transformation.

For students and academic staff, the CC represents a unified digital platform that enhances visibility, promotes physical and virtual mobility, and enables cross-institutional collaboration. It also serves as a foundation for developing joint degrees, interdisciplinary learning pathways, and blended mobility formats, thereby reinforcing TAE’s role in transnational education.

Through its active engagement, TAE reaffirms its commitment to innovation, openness and inclusivity, positioning itself as a strategic partner in building a digitally connected, sustainable and collaborative academic ecosystem within the KreativEU alliance.

### 3.1.8 TUT in Slovakia

The inclusion of courses offered by Trnava University (TUT) in the KreativEU Transnational Course Catalogue, which contains a wide range of courses offered by members of the KreativEU, is of great importance for the development of education and internationalisation at TUT, but especially for its students and academic staff. The CC promotes links and cooperation between universities. Detailed information about the courses offered can lead to new opportunities for joint projects, networking between teachers and experts, and the development of innovative educational programs.

TUT students have the opportunity to discover and take courses at partner universities, which significantly expands their academic and personal opportunities. Students gain access to different teaching styles, experts from other institutions and topics that may not be available at their home university.

Such connections also strengthen the mobility of students and academic staff, contributing to the creation of a dynamic European educational space, in which knowledge, experience, and best practices are shared.

### 3.1.9 USB in the Czech Republic

The KreativEU Transnational Course Catalogue represents an important milestone for the University of South Bohemia in České Budějovice (USB), directly contributing to the institution's strategic objectives in internationalisation, digital transformation and continuous enhancement of educational quality. Through the integration of its English-taught courses into the shared European platform, USB has strengthened its institutional visibility and reinforced its profile as an open, innovative and globally connected university.

The CC provides students and academic staff with a transparent, user-friendly interface granting access to courses offered by all KreativEU partners. It enhances student mobility, supports internationalisation at home, and facilitates the design of flexible learning pathways. For academic staff, it enables identification of potential partners for joint teaching and research-based collaboration.

From a technical perspective, the CC contributes to USB's digitalisation strategy by promoting interoperable data systems and alignment with European standards, thereby enhancing readiness for future digital cooperation.

### 3.1.10 UNICAM in Italy

The University of Camerino (UNICAM) has actively embraced the KreativEU Transnational Course Catalogue, integrating it as a central pillar of its international education strategy. This initiative represents a significant step in UNICAM's commitment to digital transformation and enhanced student mobility. By providing a seamless and transparent gateway to courses across the alliance, UNICAM empowers its students and academic staff to explore new academic horizons and foster transnational collaborations.

This digital integration not only enhances the visibility of UNICAM's own offerings but also aligns perfectly with its core values of openness and inclusivity. The catalogue serves as a practical tool for facilitating both physical and virtual mobility, removing barriers and promoting a more accessible European Higher Education Area for all. Through this contribution, UNICAM reinforces its position as a proactive and forward-thinking partner within the KreativEU alliance, dedicated to building a truly interconnected and collaborative European academic community.

### 3.1.11 VUT in Romania

The KreativEU Transnational Course Catalogue significantly boosts the international presence of Valahia University of Târgoviște and helps achieve its strategic goals for digital transformation and student mobility. By establishing a single, comprehensive database of English-taught courses available across the KreativEU alliance, the CC facilitates transparent and well-informed student decision-making regarding physical and virtual mobility options. Serving as an invaluable resource, the catalogue provides to our students a single and accessible portal to browse hundreds of courses offered by KreativEU partner institutions. This tool will significantly simplify the planning of future mobilities and will increase their number. This initiative is also increasing the university's appeal and





	<ul style="list-style-type: none"> <li>• Polytechnic University of Tomar</li> <li>• Södertörn University</li> <li>• University of Camerino</li> <li>• University of Greifswald</li> <li>• University of South Bohemia in České Budějovice</li> <li>• University of Trnava</li> <li>• Valahia University of Târgoviște</li> </ul>
Student Workload	<ul style="list-style-type: none"> <li>• Slider to set the minimal and maximal weekly workload</li> </ul>
Day of the week	<ul style="list-style-type: none"> <li>• Monday to Friday</li> </ul>
Dates	<ul style="list-style-type: none"> <li>• Minimal and maximal dates of the series</li> <li>• Availability selectable in relation to weekdays and across a time range.</li> </ul>

## Annex 2: Structure and details regarding the course cards

Name of the Course	Name
University	Name
Department	Name of the department or field of study
Local Course Code	Alphanumeric code
Course details	Subcategories: <ul style="list-style-type: none"> <li>• ECTS Credits</li> <li>• Language of Instruction (English)</li> <li>• Mode of Delivery</li> <li>• Study Programme</li> <li>• Type of Course</li> <li>• KreativEU Micro-Credentials</li> </ul>
Term information	Subcategories: <ul style="list-style-type: none"> <li>• Semester</li> <li>• Registration Start</li> <li>• Registration End</li> <li>• Session</li> <li>• Course Cycle</li> </ul>
Course content	Description of the course, assessment, comments and assess requirements.
Learning outcomes	Description of the learning outcome
Keywords	List of keywords
Link to local Website or to the Catalogue	URL

### Annex 3: Form for announcing new courses

General Information	<p>Subcategories:</p> <ul style="list-style-type: none"> <li>• Course Name</li> <li>• University</li> <li>• Local Course Code</li> <li>• Department / Field of Study</li> <li>• Link to Course Website/Catalogue</li> </ul>
Course Description	<p>Subcategories:</p> <ul style="list-style-type: none"> <li>• Course Content</li> <li>• Learning Outcomes</li> <li>• Literature &amp; Course Materials (Optional)</li> </ul>
Course Details	<p>Subcategories:</p> <ul style="list-style-type: none"> <li>• Type of Course</li> <li>• Modus</li> <li>• Study Programme</li> <li>• ECTS Credits (Optional)</li> <li>• Student Workload (hours) (Optional)</li> <li>• Language of Instruction</li> <li>• Language Level (e.g., B2) (Optional)</li> <li>• Keywords (comma-separated) (Optional)</li> <li>• KreativEU Micro-Credentials (Optional)</li> </ul>
Logistics & Contact	<p>Subcategories:</p> <ul style="list-style-type: none"> <li>• Min Participants (Optional)</li> <li>• Max Participants (Optional)</li> <li>• Assigned Contact</li> <li>• Contact Email (Optional)</li> </ul>
Term Information	<p>Subcategories:</p> <ul style="list-style-type: none"> <li>• Semester (Optional)</li> <li>• Course Cycle (Optional)</li> <li>• Session (Optional)</li> </ul>
Final Statement (for Course Designers only)	[formula by which course designers acknowledge adherence to European guidelines in designing the course]



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