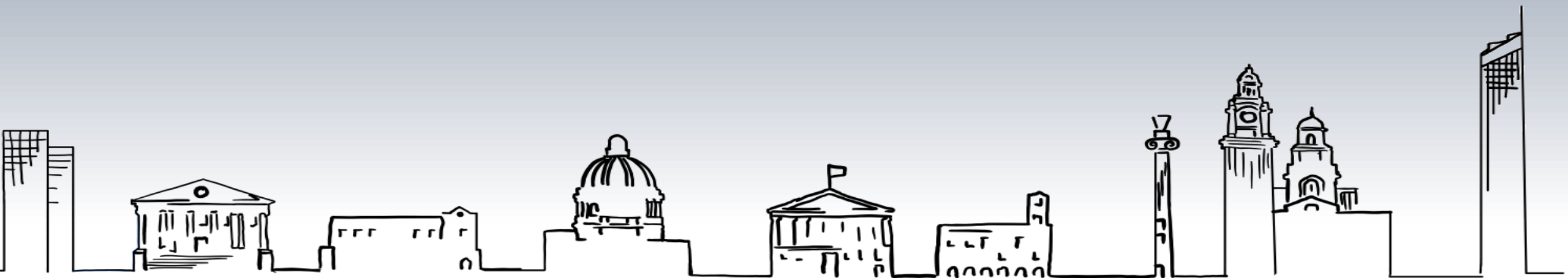


Microcredentials Reality and Vision

Kay Berkling (DHBW)

April 2025

OEAD



Vision

Lifelong learning

Personalized Learningpath

Practical and Theoretical Mix

Stackable Credentials

What's Keeping us

Digitalisation, Accreditation (5 ECTS), Double Credential

Lack of understanding, Policy, Fear

Practical and Theoretical Mix

Labor or rewriting, Strategic outlook, standardizing LO

Policy

Quality

Technology

Stackability

Understanding Personalisation

- Standards
- Learning Path
- Understanding of Personas



					
	Olli	Kirsi	Oona	Pekka	Sami
STUDIES	• Delves into subjects according to his current interests • Informal content and beginner-level courses on various themes and topics	• Actively follows the development of working life • Expands her expertise into new topics as needed, flexibly	• Holds a stable position in working life or wants to move into an expert role • Studies to accumulate and strengthen her expertise as a specialist	• Considers a new degree necessary for a career transition • Accumulates studies/skills for a degree	• Recognizes labor market instability and wants to secure job stability • Completes an unfinished degree

Embarking on the Learning Adventure: Modular Microcredentials for Personalized and Connected Competence Development

Kati Marin

Metropolia University of Applied
Sciences, Finland

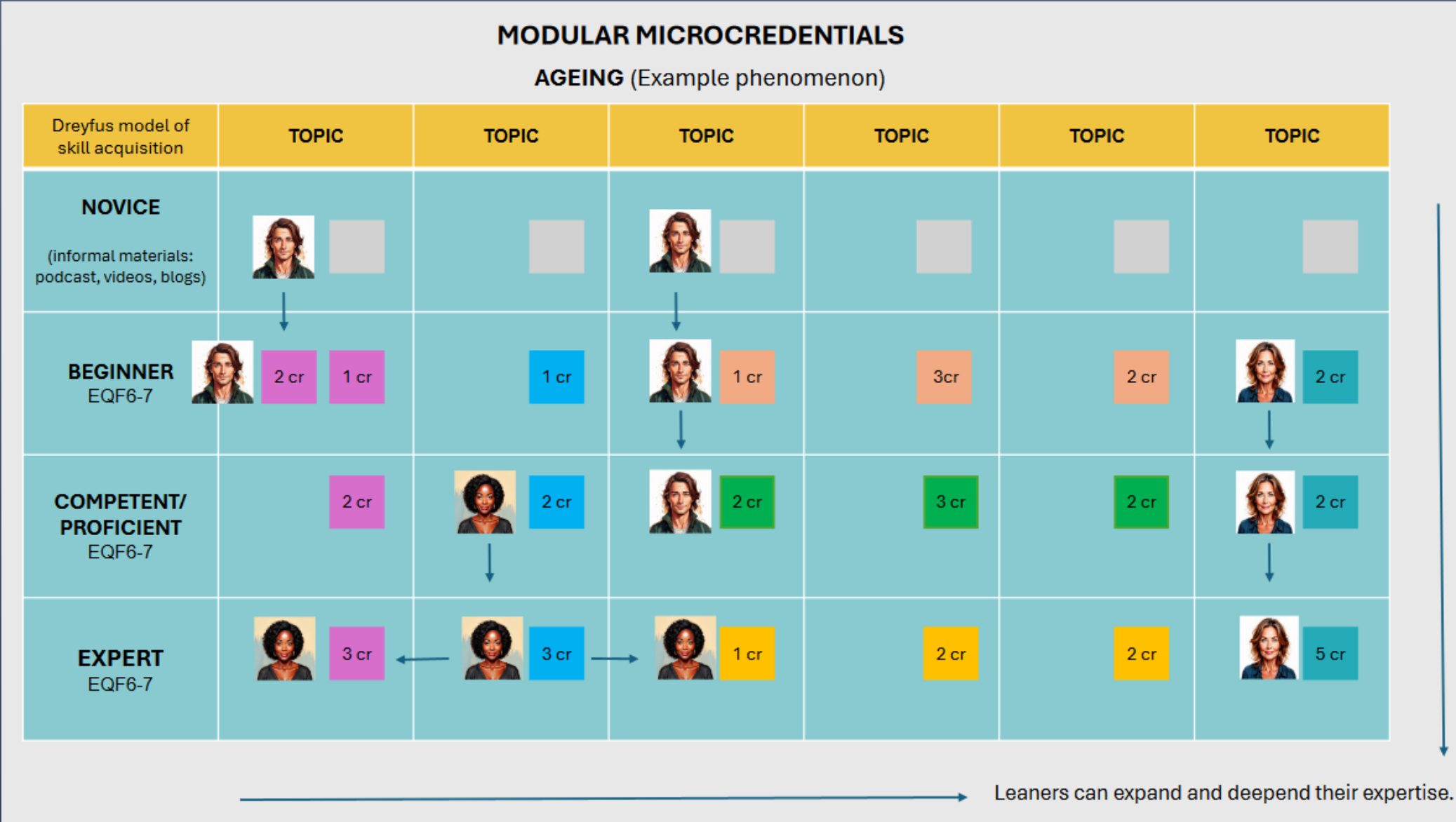
Virve Oksanen

Laurea University of Applied
Sciences, Finland

https://www.theseus.fi/bitstream/handle/10024/878112/Laurea%20Long%202025_2.pdf?sequence=2&isAllowed=y

Personalisation & Quality

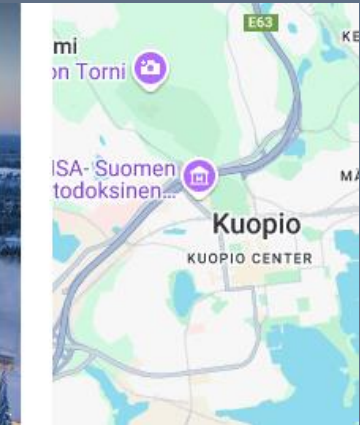
MC Design Differs



How it all started



Dean
Director
Researcher
IT
Teachers
International Office



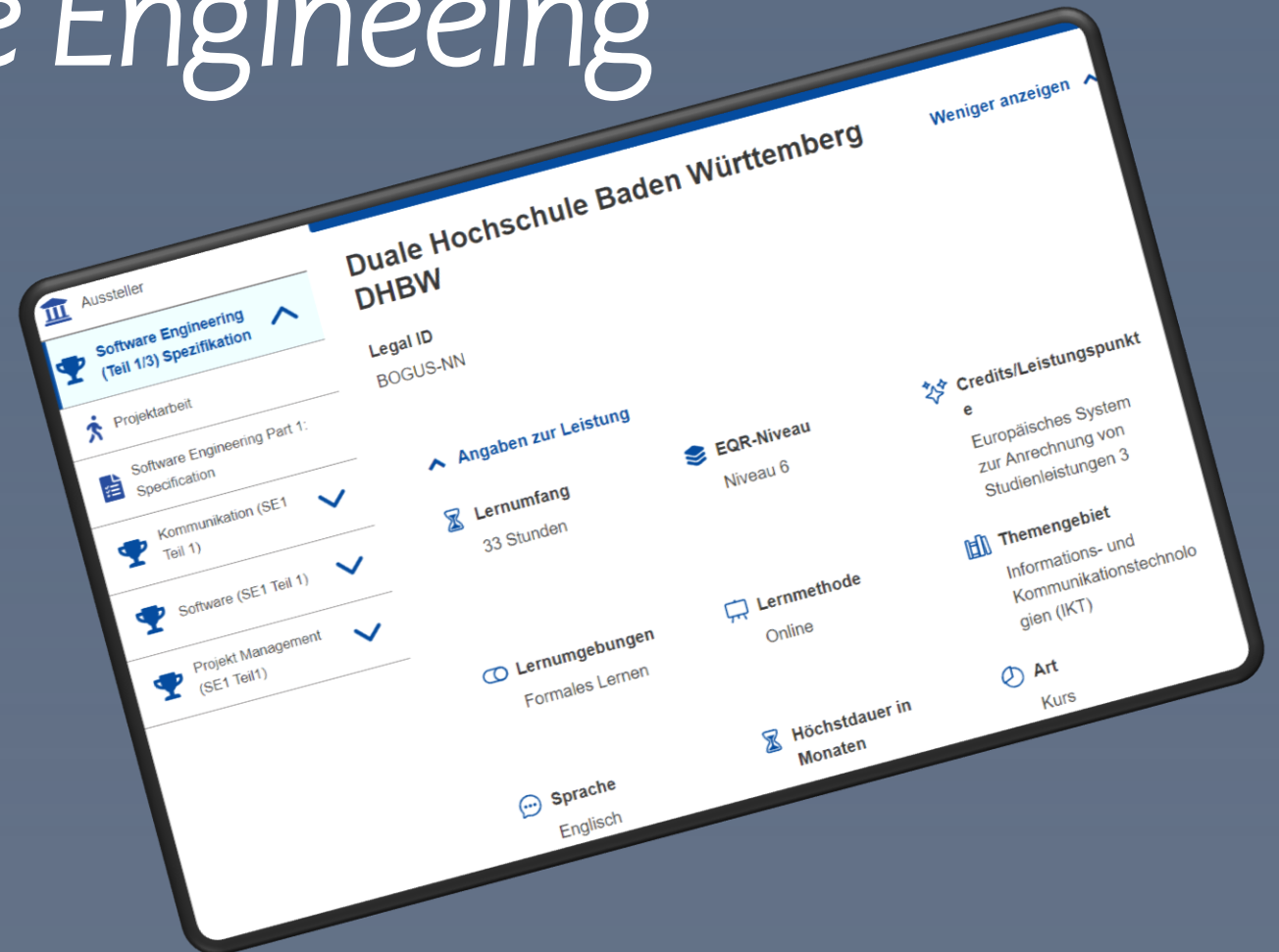
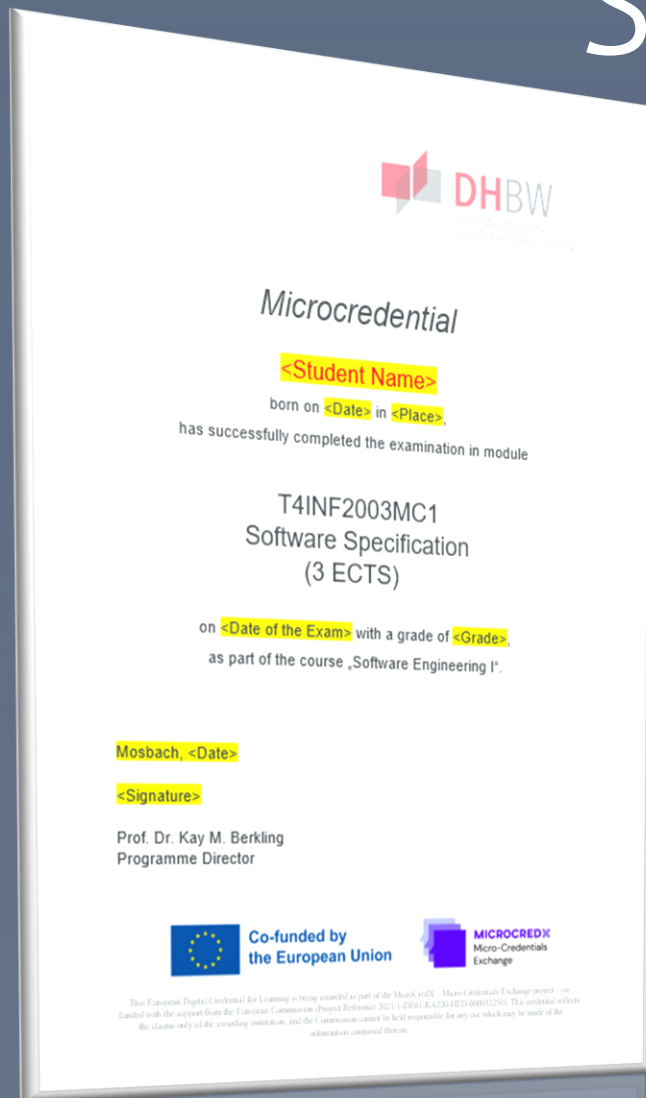
SAVONIA
UNIVERSITY OF APPLIED SCIENCES



Erasmus+



Microcredentials Software Engineering



EU Alliances



Tampere
Open University of Catalunya
DHBW
Mondragon
Johanneum
EDEN



DHBW
Mondragon
Johanneum

Estia
Neumann
MCAST
PAR
Kostzalinska
Savonia



USE CASE 7

User identity



Achieving interoperability for user identities across educational transitions, ensuring consistent identification throughout their academic journey.

Access Federated identity
Student cards

USE CASE 6

Earn a credential



The digital management of educational credentials (issuance, verification, revocation), affirming the achievements from diverse learning experiences.

Micro-credentials
Portable credentials

USE CASE 1

Discover



Enhancing the visibility and comparability of diverse learning and mobility opportunities across HEIs, emphasising the importance of machine-readable metadata for easy comparison and discovery.

CMS (Website) Course catalogue
Curriculum management

USE CASE 2

Apply and get recognition



Simplifying credit recognition and cross-institutional enrolment, emphasising seamless data exchange to support all forms of learner mobility and academic continuity.

Admissions Recognition

USE CASE 3

Access tools



Streamlining the management and governance of shared resources among alliance members, covering both physical and virtual assets.

Laboratory access Library systems
Research tool registry

USE CASE 5

Generate data

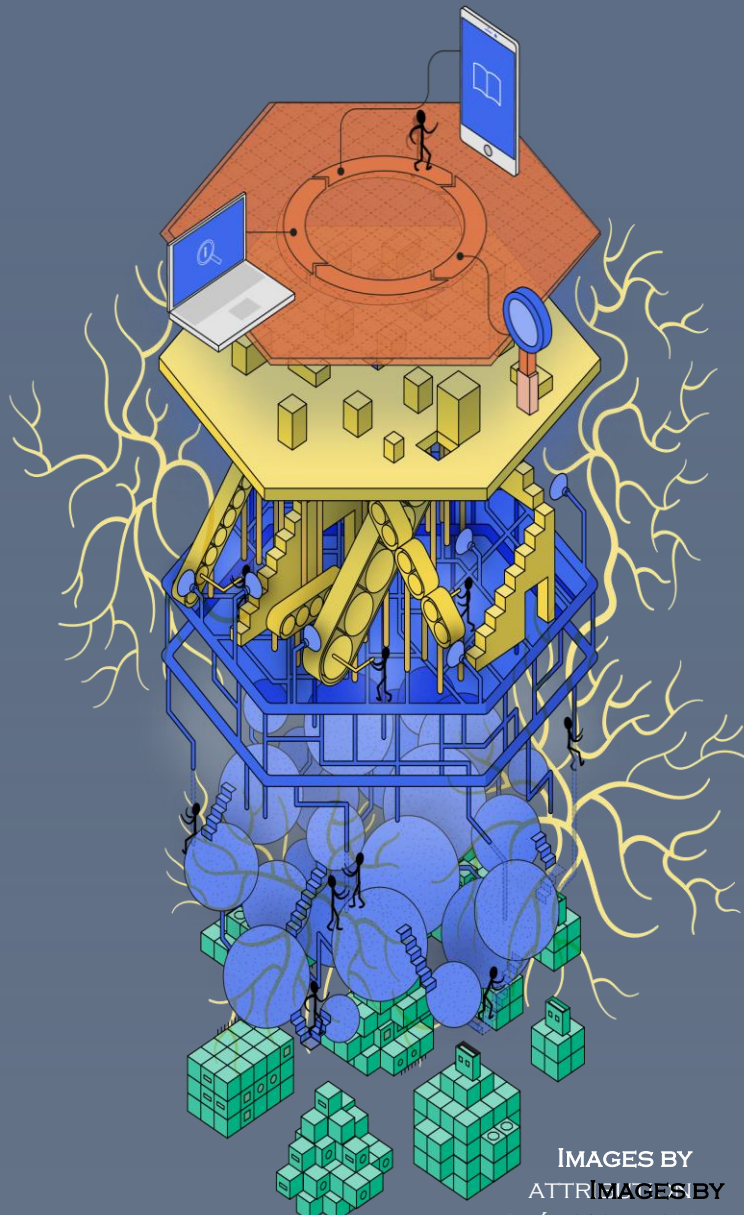


Establishing a standardised approach for the exchange of learners' activity data to ensure a seamless integration of various virtual learning environments.

Learning Analytics
Student Analytics

EDEH Use Cases

European Digital Education Hub

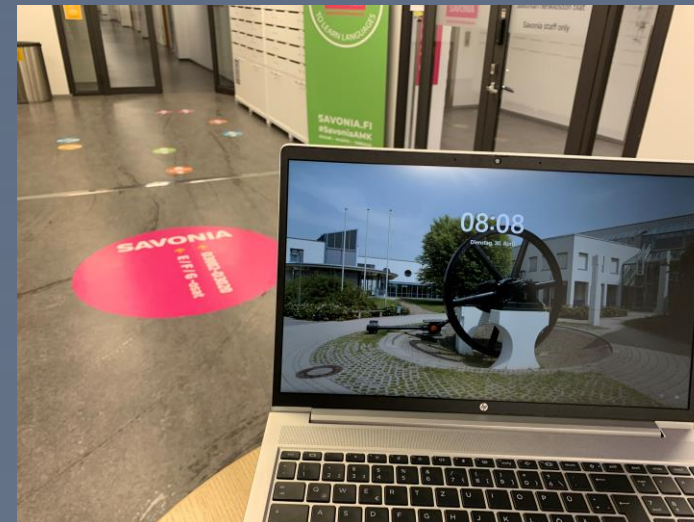


USE CASE 1

Discover

Word of Mouth

A visit to the partner university by a professor from our institution results in a personal friendship and **trusted** relationship. The course offering is passed on through **emails** and reaches a student of that college in the partner university.

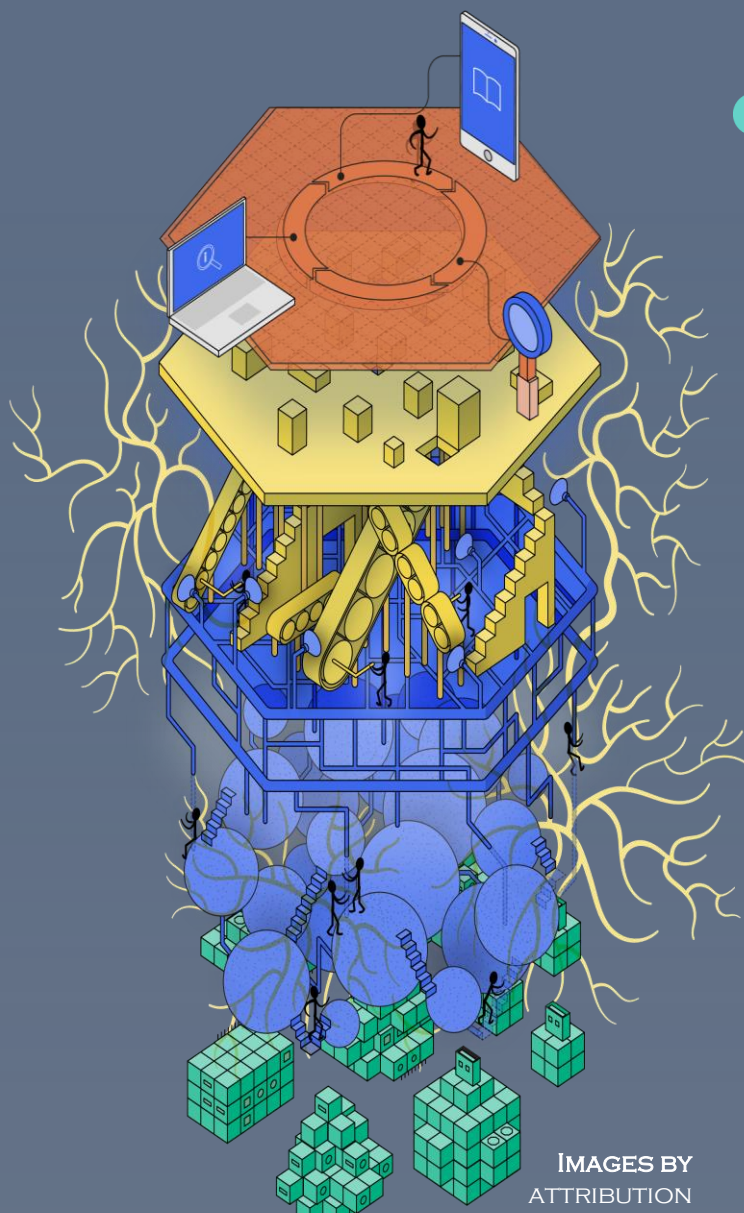


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ATTRIBUTION

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USE CASE 1

Discover

USE CASE 2

Apply and get
recognition

Send an Email

IMAGES BY
ATTRIBUTION

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The student signs up via a **website** from another european project that is older but works perfectly and the sign-up email lands in the professor's mailbox. The student is notified that they are accepted. A brief **phone call** makes sure the student is eligible to fulfill the prerequisites.



[About the Project](#) | [Partners](#) | [Deliverables](#) | [Course Catalogue](#) | [Contact](#)

The MicrocredX Course Catalogue

Take a course from another university of those listed below, and get these credits recognised as part of the total credits needed to complete your study programme at your home university.

- What are the steps I need to follow if I want to benefit from the statement above?
- Will this catalogue be renewed with new courses?

Search by keyword

Provided By

- ☐ Open University of Catalonia
- ☐ Tampere University
- ☐ FH Joanneum
- ☐ DHBW Heidenheim
- ☐ Mondragon University
- ☐ DHBW

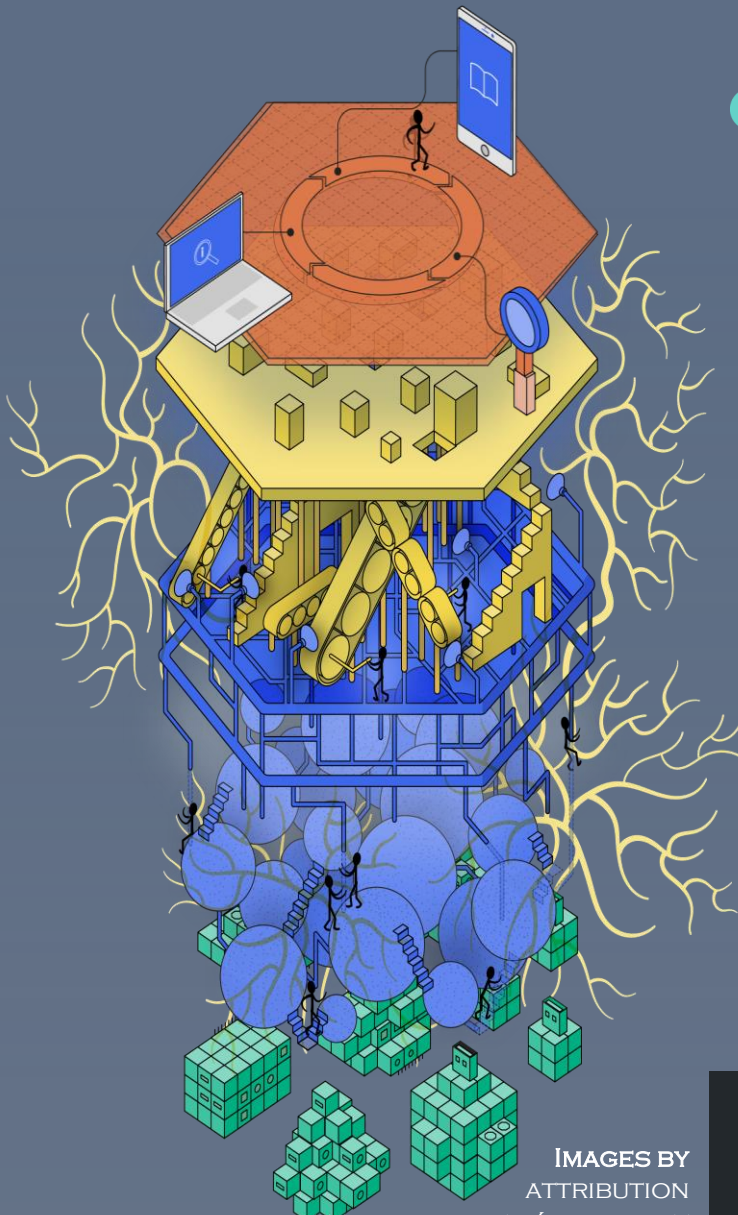
Language

ECTS credit points

Provided at

- ☐ Virtual
- ☐ Hybrid
- ☐ On-site

Education subject



USE CASE 1

Discover

USE CASE 2

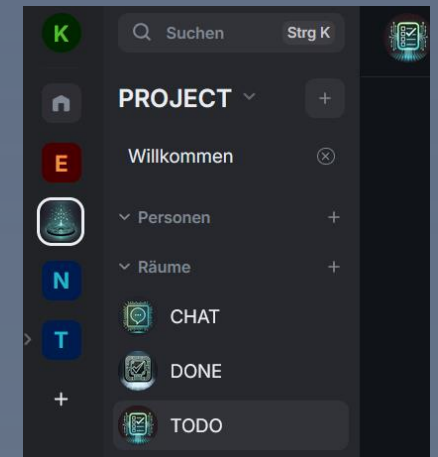
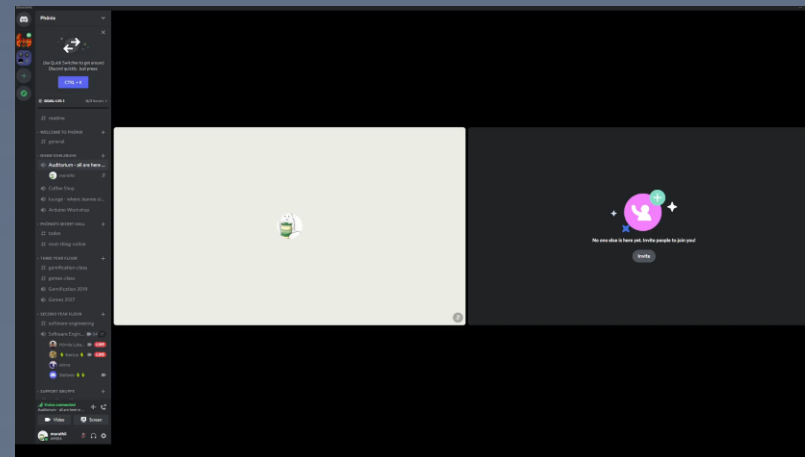
Apply and get recognition

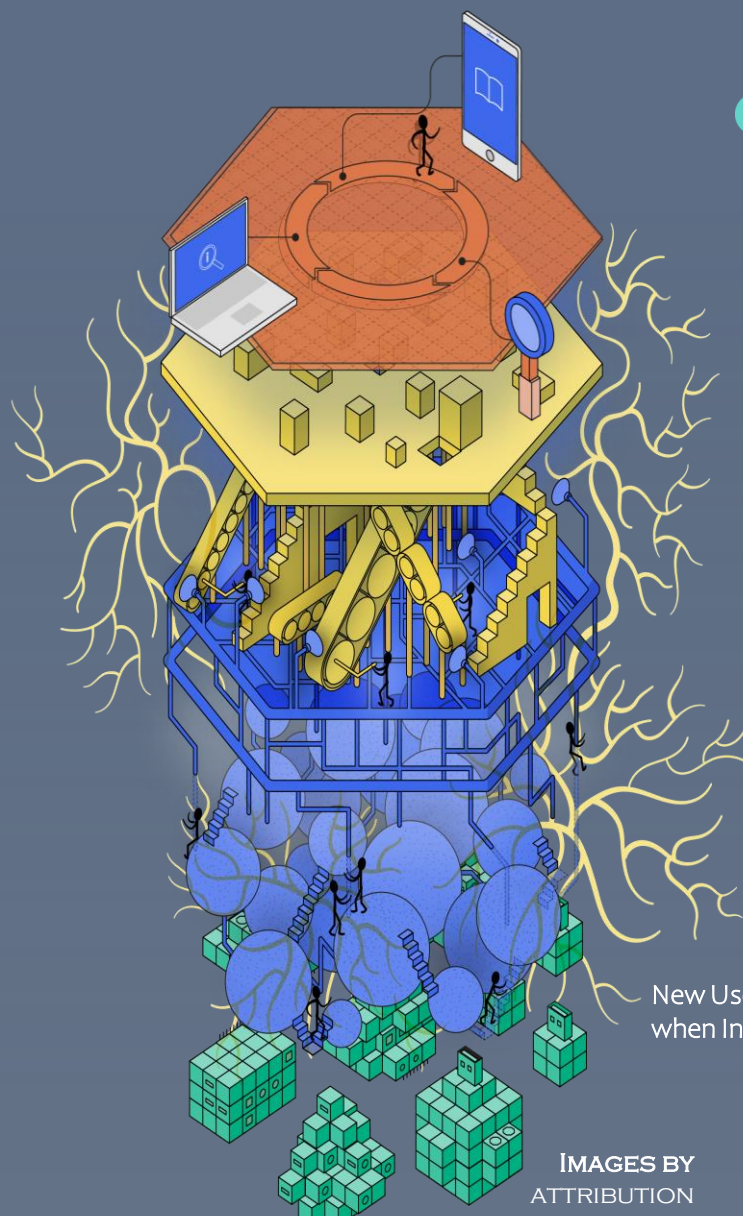
USE CASE 3

Work-around for Access

Access tools

The student joins the course online through virtual mobility on an external video conferencing system and **external repository** for class material.





USE CASE 1

Discover

USE CASE 2

Apply and get
recognition

USE CASE 3

Access tools

USE CASE 6

Earn a
credential

New User ID
when Inscribed

USE CASE 7

User identity

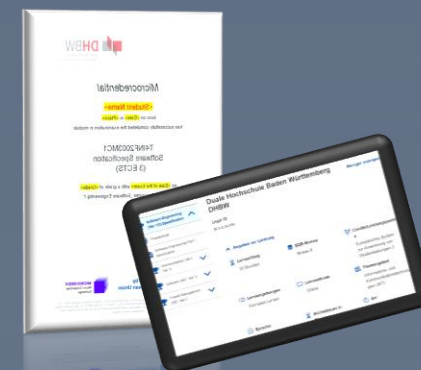
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ATtribution

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The grade is entered into an excel, which is uploaded **through a company** that supports us in sealing Europass credentials in our name. It took the professor in a personal initiative over 100 hours to create that template on Europass. Today, with AI tool support, it takes one day. The student is inscribed into the module as any normal incoming these days and the **transcript is sent the traditional way**, by typing the information into the Erasmus without Paper Platform. EWP



Knowledge
INNOVATION
Centre



Virtual Mobility :: Computer Science



35 Students

38% Women

19 Countries

Ages: 17-32

5 Mothers

The youngest baby is 2 weeks old



Physical Mobility



[LinkedIn Post](#)



SAVONIA
UNIVERSITY OF APPLIED SCIENCES



Karlsruhe

 **DHBW** Mannheim

Tools // Hybrid

GenAI

Kontent – Sprachlernen

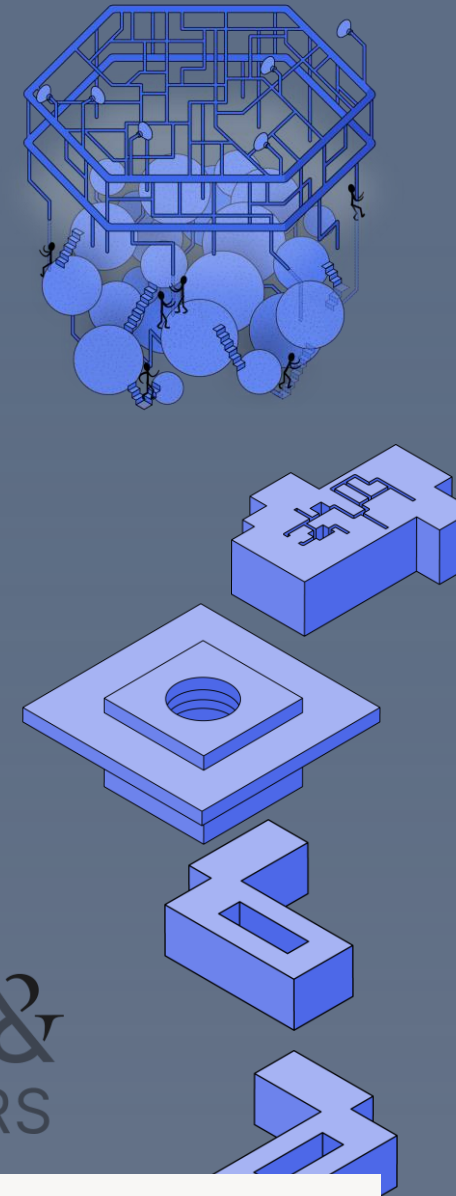
Student Analytics

Transcription

Feedback

Context-Chat

Technik kompatibel



EDT &
PARTNERS

GenAI Services
(EDT's Lecture
Framework Integration)

Lecture
Analytics

Lecture
Preparation

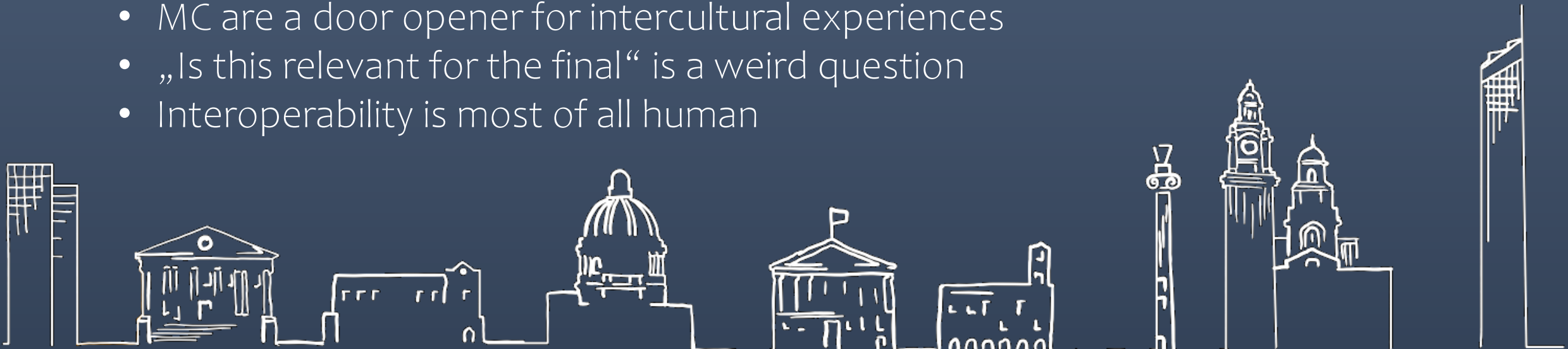
Lecture
Engagement

Content
Translation

Real-Time
Transcription

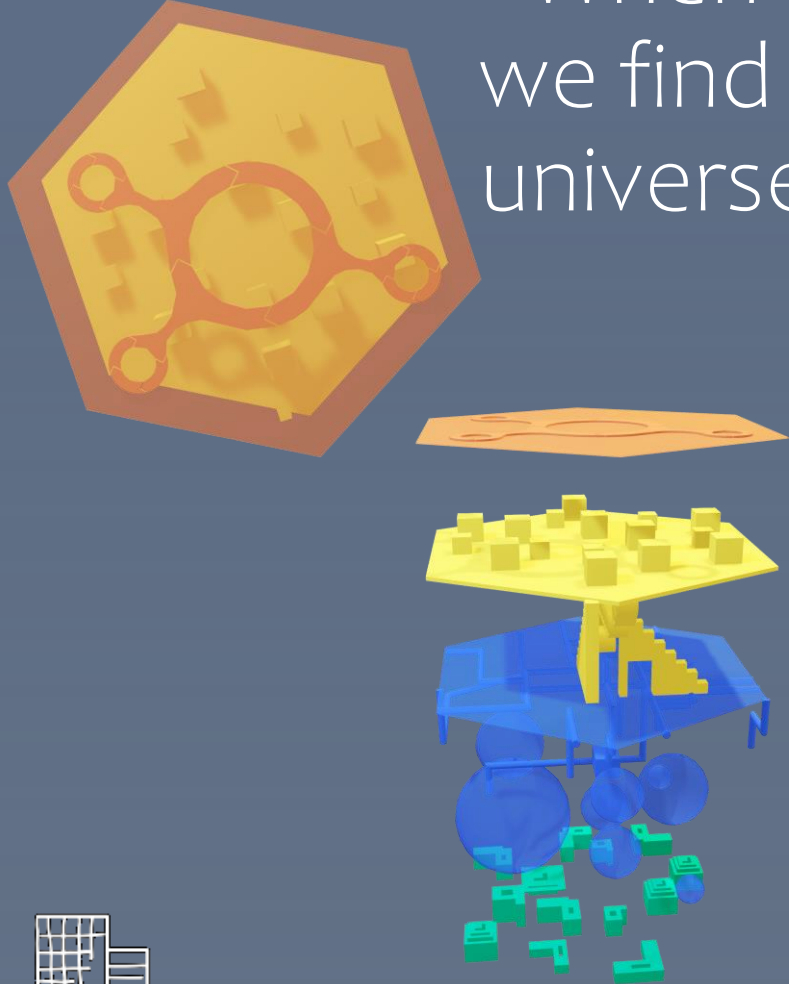
Learnings

- English makes your course international
- Online classes are a door opener for physical mobility
- Interdisciplinary classes create new professions
- Mothers can study full time
- Trust is worth more than a functioning website
- People are faster than universities
- Crossing Alliances allows pilots to broaden up
- MC are a door opener for intercultural experiences
- „Is this relevant for the final“ is a weird question
- Interoperability is most of all human



“When we try to pick out anything by itself,
we find it hitched to everything else in the
universe.”

John Muir 1838–1914



Stay tuned for Special Event at DHBW this Fall

EXTRA

FALLS ZEIT BLEIBT FÜR DIE HOCHSCHULE DER ZUKUNFT

Studierendensicht

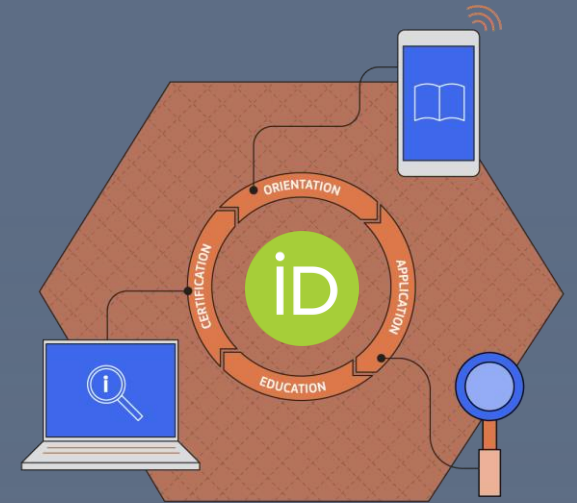
Ich wähle meine Vorlesungen selber

KI-Basierte personalisierte Vorschläge

Lebenslange Student ID

Lernprofil

Hochschulübergreifend

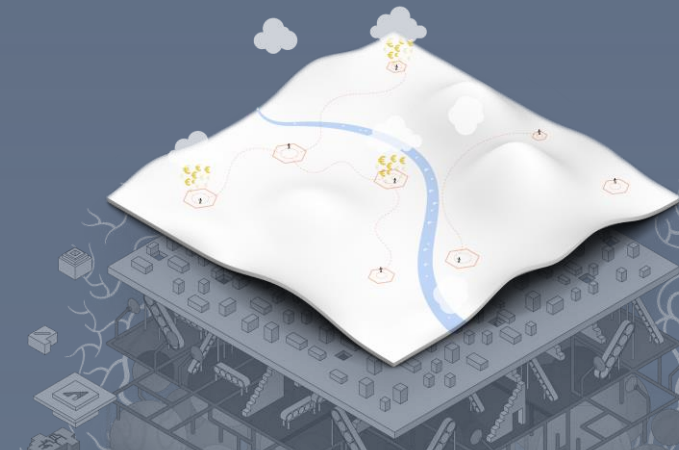


DIGIVISIO Topical ▾ Vision ▾ Opin.fi ▾ Take part ▾ About us ▾ EN ▾

Finland lives on diverse expertise.

In the Digivisio 2030 programme, Finnish higher education institutions are building a future of learning together. The goal is a new era of learning where each of us can learn more easily and flexibly, thus accumulating the expertise needed in a constantly changing world.

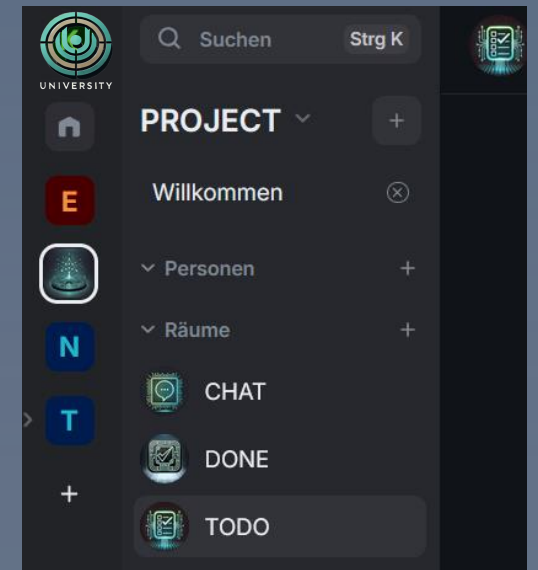
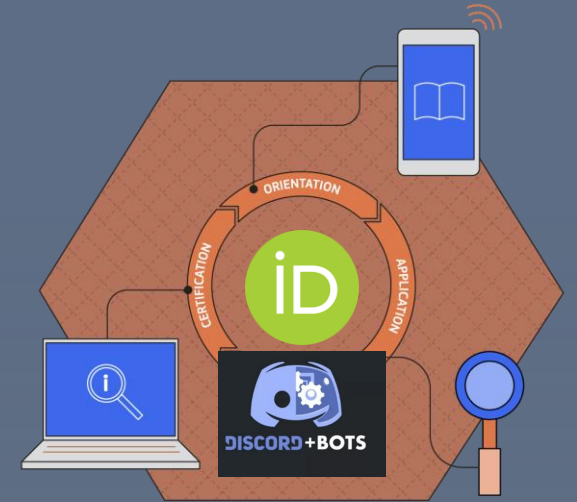
New services developed in Digivisio 2030 – Digivisio2030 [Play video](#)



Studierendensicht

Ich bin hybrid vernetzt auf Community Servern

- Internationale Netzwerke
- Lerngruppen
- Austausch zu Themen
- Sprach-lern Tandems
- Learning Opportunities



KI Gestützt:
Anonymisierung



Studierendensicht

Öffnung für Mitbürger

U:F UNIVERSITY:FUTURE
FESTIVAL
2025

FESTIVAL

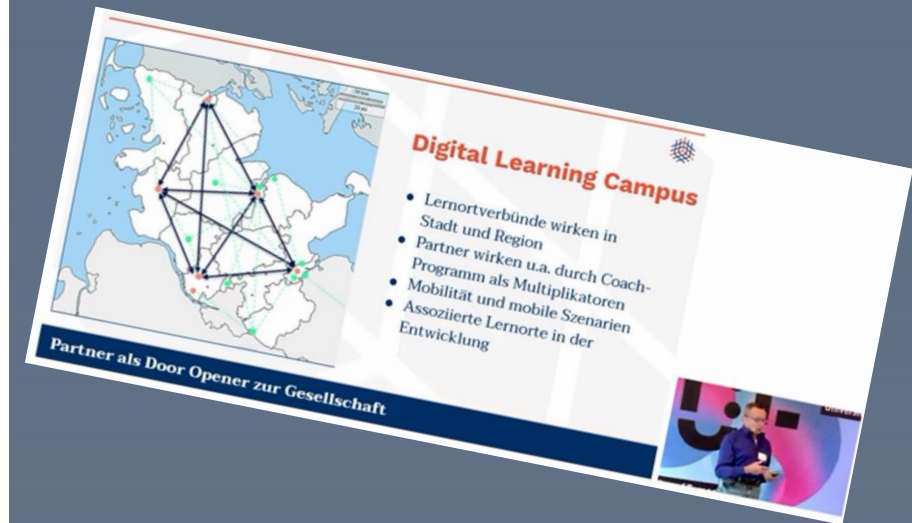
TICKETS

June 6, 2024, 15:40 pm – 16:10 pm

Neue Lernorte für sterbende Innenstädte

Schleswig-Holstein transformiert mit dem Digital Learning Campus (DLC) innerstädtische Leerstände in innovative Lernorte, die Wissen, Gemeinschaft und Kreativität fördern. Ein digitaler Hub wird mit einem Metadatenkonzept für GPS-Koordinaten, Kursbeschreibungen und Kompetenzenrastern versuchen, per KI passgenaue Inhalte aus Präsenz und Online Angeboten zu empfehlen. In umgebauten Gebäuden, wie dem ehemaligen Karstadt in Lübeck entstehen Räume für Schulen, Maker Spaces, 3D Videostudios oder andere Bildungsangebote. Die Angebotspalette reicht von Vorträgen, Science Slams, Schulungen über hybride Settings

<https://festival.hfd.digital/en/sessions-2024/?id=629296>



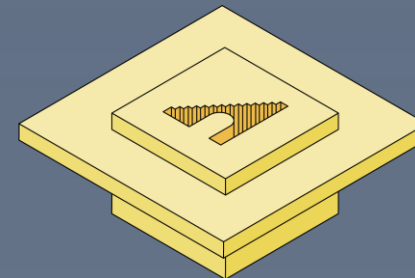
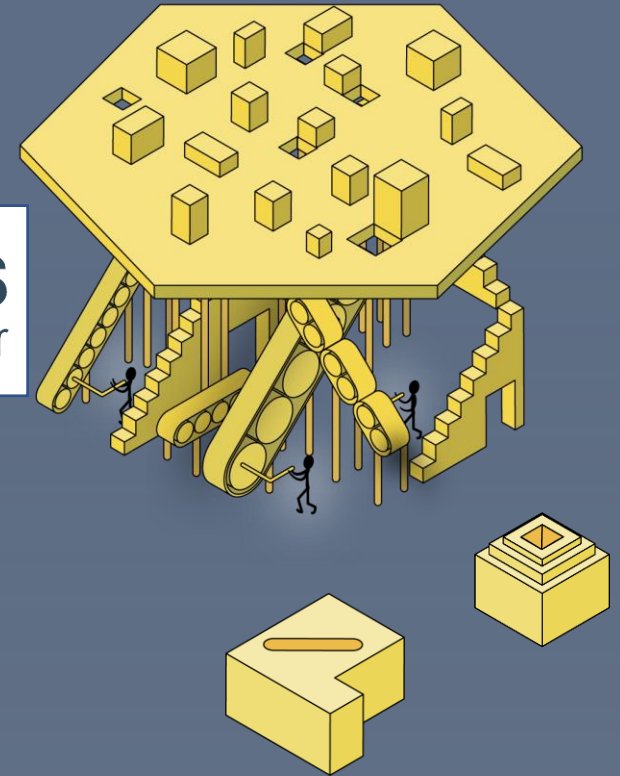
Prozesse

Digitalisiert

Automatisiert

Skills statt Curricula

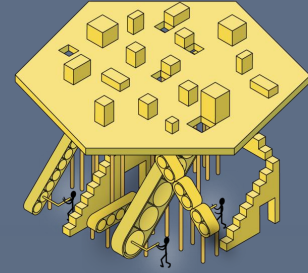
Interdisziplinär



Prozesse - Enabler

Standards für Datenhaltung und -transfer

KI-gestützter Wandel Text => Skills



Aussteller

Software Engineering (Teil 1/3) Spezifikation

Projektarbeit

Software Engineering Part 1: Specification

Kommunikation (SE1 Teil 1)

Peer Reviews

Präsentieren

Bloggen

Kommunikation

Software (SE1 Teil 1)

Projekt Management (SE1 Teil 1)

Duale Hochschule Baden Württemberg DHBW

Weniger anzeigen

Legal ID
BOGUS-NN

Lernergebnisse

Problemstellung für Software Umsetzung analysieren

Mehr anzeigen

Entwürfe und Lösungen mündlich und schriftlich präsentieren

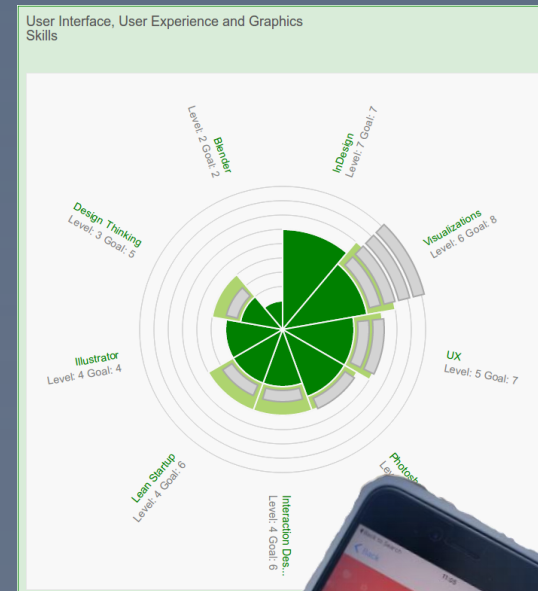
Mehr anzeigen

Lernaktivitäten

Peer Reviews

Präsentieren

Bloggen



Welcome to Skill Finder!

Introducing our innovative online tool designed to streamline skill matching. Skill Finder! With Skill Finder, users can effortlessly input a skill title or description and receive instant matches with related skills from the ESCO database.

Additionally, Skill Finder empowers users to vote on the relevance and quality of the recommended skills by simply clicking thumbs up or down. Your input helps refine our algorithm, ensuring even more precise matches in the future.

Software development tools

Search

Integrated Development Environment Software

The suite of software development tools for writing programs, such as compiler, debugger, code editor, code highlights, packaged in a unified user interface, such as Visual Studio or Eclipse...[read more](#)

[Visit Website](#)

ICT Debugging Tools

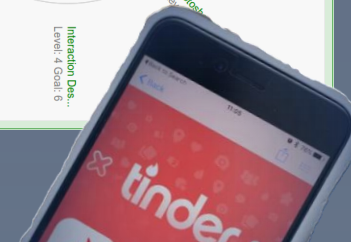
The ICT tools used to test and debug programs and software code, such as GNU Debugger (GDB), Intel Debugger (IDB), Microsoft Visual Studio Debugger, Valgrind and WinDbg.

[Visit Website](#)

Database Development Tools

The methodologies and tools used for creating logical and physical structure of databases, such as logical data structures, diagrams, modeling methodologies and entity-relationships.

[Visit Website](#)



Laws/Policy LHG/GO

Hochschulübergreifendes Studium

Kumulierbarer Bachelor

Micro-Credentials und Lebenslanges Lernen

Akkreditierung



Admission | Blogue Futur étudiant

All about the Cumulative Bachelor's degree

Planning your academic journey

<https://admission.umontreal.ca/en/focus-udem/article/all-about-the-cumulative-bachelors-degree/>



MATHS135 Discrete Structures

2025 [Change year](#) v

Points ⓘ

15

Level ⓘ

100

Teaching periods ⓘ

B Trimester, C Trimester, and other teaching periods

Locations ⓘ

Hamilton, Secondary School -
Unistart, Tauranga, Hamilton Waikato
College, Hainan University, Haikou
China

Prerequisite(s) ⓘ

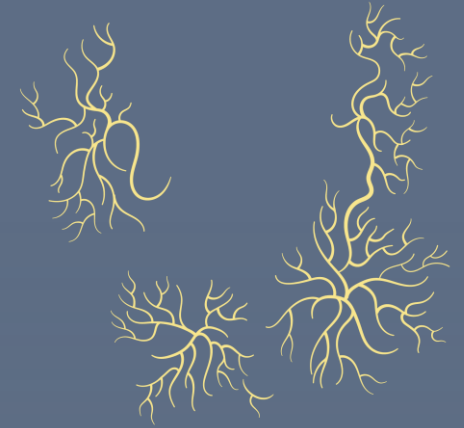
At least one of MATHS165 or
MATHS166; or 14 credits in NCEA
Level 3 Mathematics.

To see available locations for each teaching period, view the [teaching periods and locations table](#).

<https://www.waikato.ac.nz/study/papers/maths135/2025/>

Interaktive Webseite Skill-Basiert (Akkreditiert)

<https://www.sydney.edu.au/handbooks/engineering/advanced-computing.html>



Streams Stack-up mit Learning Outcomes

Learning outcomes

On successful completion of the program students will be able to:

No.	Course Learning Outcome	Graduate quality	Graduate quality	Graduate quality	Graduate quality
1	Select and apply investigative methods, models and tools with general understanding of their underlying principles, operating parameters and procedural requirements	Depth of disciplinary expertise	Critical thinking and Problem solving		
2	Competently address complex problems requiring a broad range of discipline knowledge, under some supervision	Depth of disciplinary expertise	Critical thinking and Problem solving		
	Justify creative solutions to non-routine and complex problems/				

Tools // Hybrid

GenAI

Kontent – Sprachlernen

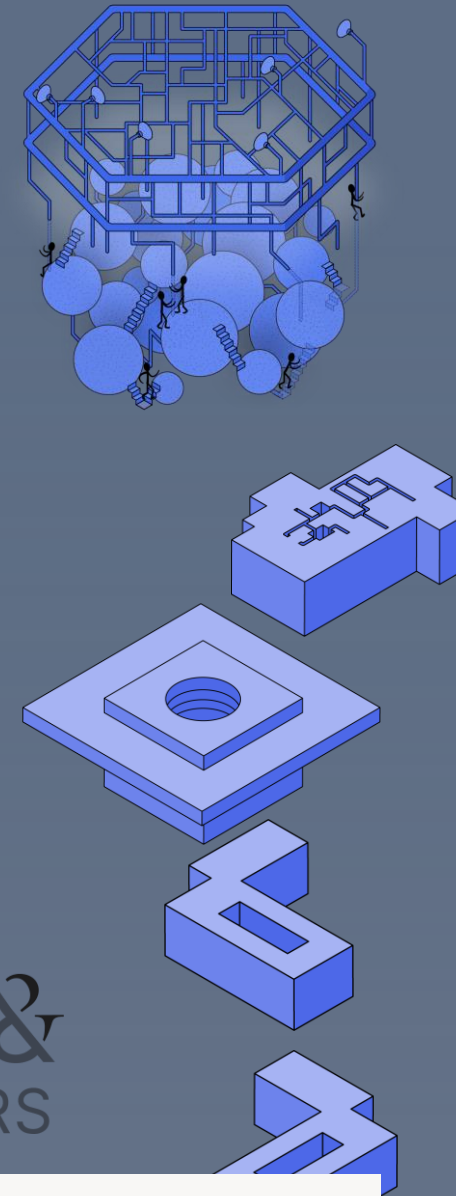
Student Analytics

Transcription

Feedback

Context-Chat

Technik kompatibel



GenAI Services
(EDT's Lecture
Framework Integration)

Lecture
Analytics

Lecture
Preparation

Lecture
Engagement

Content
Translation

Real-Time
Transcription

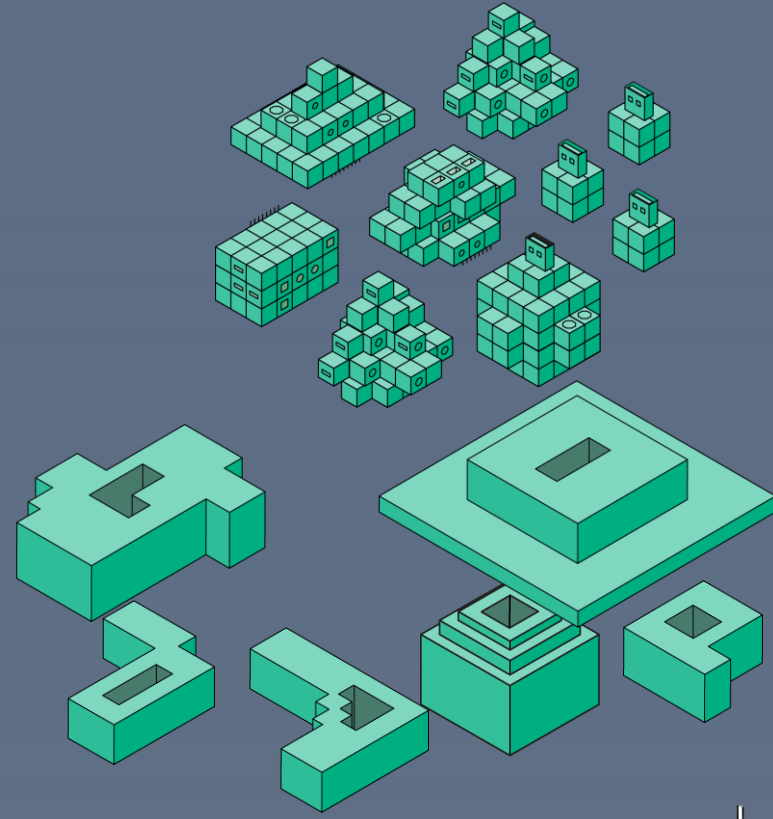
Campus Management System

Modulare Studienangebote

Hochschulübergreifend Interoperabel

Kennt persönliche Präferenz

Europass konform



Campus Management System

Transparenz über Standorte hinweg

[Home](#) > [Study with us](#) > [Qualifications](#) >

Bachelor of Computer Science

Bachelors Degree | BCompSc



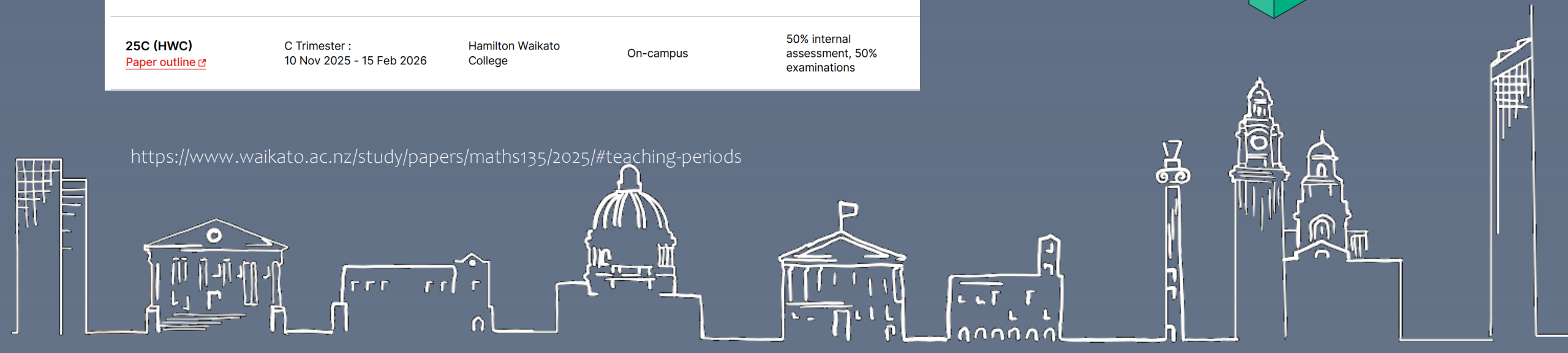
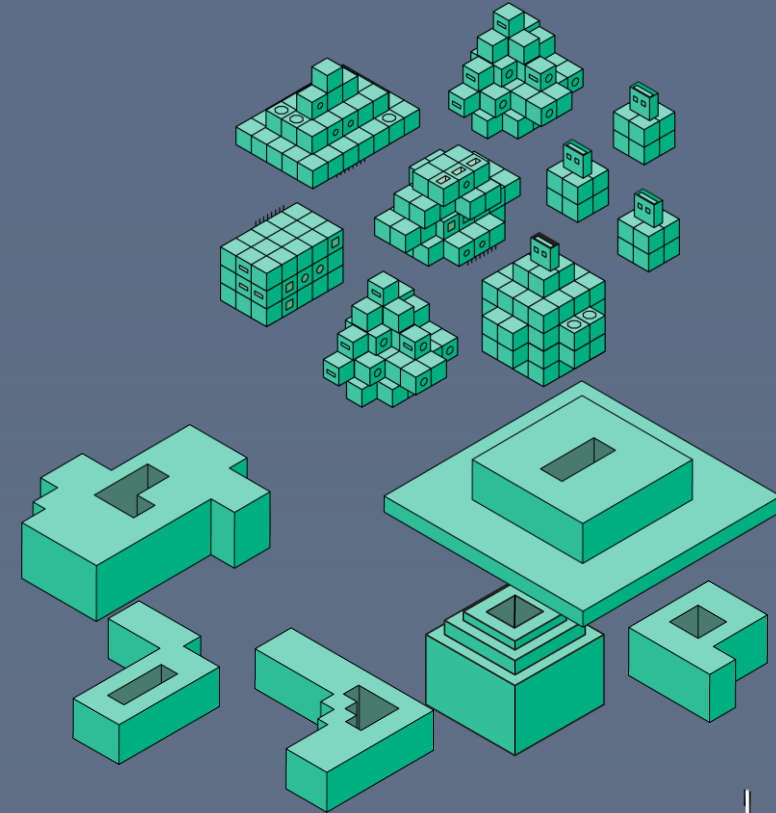
Campus Management System

Personalisiert

Teaching Periods and Locations

Occurrence Code ⓘ	Teaching Period ⓘ	Location ⓘ	Delivery mode ⓘ	Assessment weighting ⓘ
25B (HAM) Paper outline	B Trimester : 07 Jul 2025 - 02 Nov 2025	Hamilton	On-campus	50% internal assessment, 50% examinations
25B (SEC) Paper outline	B Trimester : 07 Jul 2025 - 02 Nov 2025	Secondary School - Unistart	Unistart	100% internal assessment
25B (TGA) Paper outline	B Trimester : 07 Jul 2025 - 02 Nov 2025	Tauranga	On-campus	50% internal assessment, 50% examinations
25C (HWC) Paper outline	C Trimester : 10 Nov 2025 - 15 Feb 2026	Hamilton Waikato College	On-campus	50% internal assessment, 50% examinations

<https://www.waikato.ac.nz/study/papers/math135/2025/#teaching-periods>



Campus Management System

Hochschulübergreifend

 **Bundesministerium**
Bildung, Wissenschaft
und Forschung

 **ENIC NARIC**
AUSTRIA

Empfehlung zur Durchführung gemeinsamer Studienprogramme (*joint programmes*)

Das Bundesministerium für Bildung, Wissenschaft und Forschung empfiehlt, bei der Konzeption gemeinsamer Studienprogramme Folgendes zu beachten:

1. Definition

Gemeinsame Studienprogramme (*joint programmes*) sind Studien, die auf Grund von Vereinbarungen zwischen zwei oder mehreren Universitäten, Pädagogischen Hochschulen, Fachhochschulen, Privathochschulen, Privatuniversitäten (im Folgenden: österreichische Hochschulen) oder ausländischen anerkannten postsekundären Bildungseinrichtungen durchgeführt und abgeschlossen werden (§ 51 Abs. 2 Z 26 Universitätsgesetz 2002 – UG, BGBl. I Nr. 120/2002, § 3 Abs. 2 Z 10 Fachhochschulgesetz – FHG, BGBl. Nr. 340/1993, § 35 Z 30 Hochschulgesetz 2005 – HG, BGBl. I Nr. 30/2006, § 8 Abs. 3 Privathochschulgesetz – PrivHG, BGBl. I Nr. 77/2020, jeweils in der geltenden Fassung).

Die Hochschule der Zukunft



- für Studierende

- Hat Sicht auf globale Angebote
- Besitzt ein **lebenslanges** Portfolio
- Bekommt personalisierte Vorschläge
- Verfolgt Kompetenzbasierte, kombinierbare Zielsetzung und Lernmöglichkeiten
- Arbeitet Community unterstützt
- Besitzt eigenen Daten

- von Hochschulen

- Die Hochschule ist überall
- Vereinigung der Hochschulen
- Transparente Angebote
- Bietet technische, sichere, effektive Unterstützung für hybride Lehre
- Integriert und nutzt KI auf allen Ebenen
- Ist temporärer **Gastgeber** für Lernende
- Inklusiv für jeden

