

# Harmonized European Dermato-Venereology Undergraduate blended LEARnIng Implementation and Training (HEDU\_LEARN\_IT)



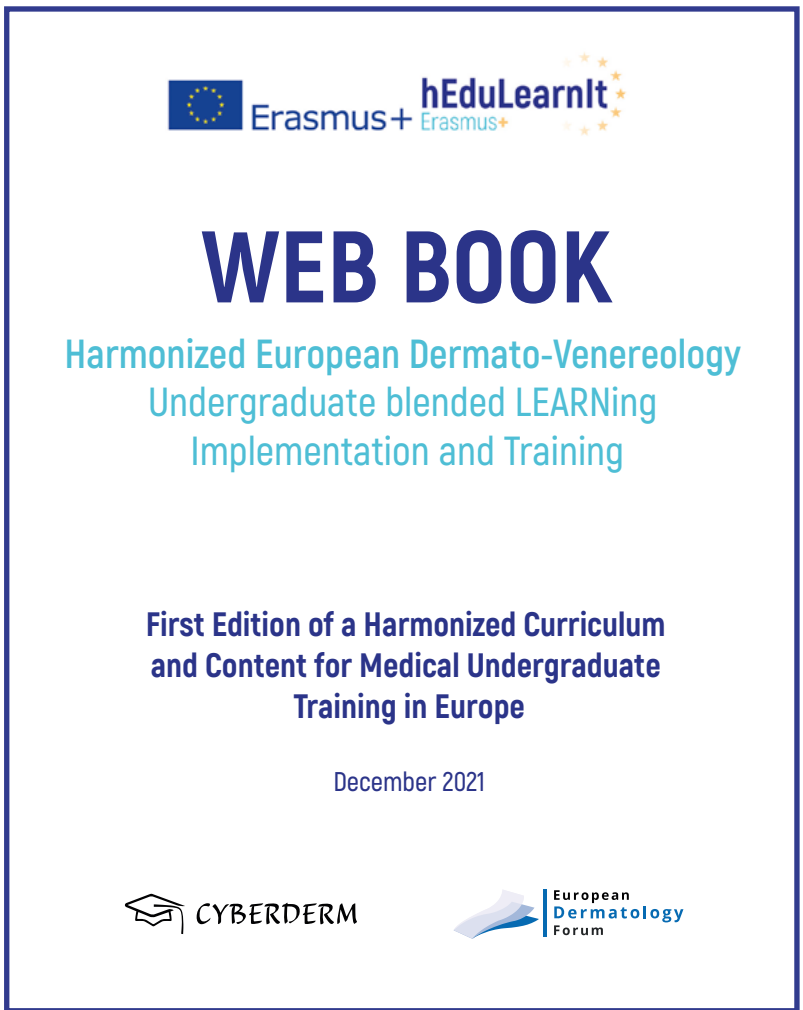
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## Abstract

About 20-25% of all physician consultations refer to problems of the skin. Thus Dermato-Venereology is a very important core component in the undergraduate training of medical students. However, less than 3% of doctors in Europe are specialized in Dermato-Venereology. The better the medical undergraduate training at the university level, the better the diagnostic and therapeutic decisions and the interdisciplinary consultation at the time when the student has reached the level of a licensed doctor in daily practice at the private office or in the clinic. At start of the project in 2018 until today an unwanted disproportion of contents and of teaching hours at the level of universities across Europe exists. The differences in lecture hours still varies between 15 and 130 from country to country. Therefore, an urgent need exists to harmonize the contents (catalogue and special objectives), the amount of teaching time and ways of lecturing (frames) and combining it with advanced didactic e-learning facilities. In this project European partners worked on harmonization of the catalogue of learning objectives, formats and contents in the undergraduate training curriculum in Dermato-Venereology. In parallel the harmonization of the written new curriculum could be connected and supported by establishing a blended e-learning program.



The project partner revised and updated 144 essential for under-graduate learning necessary to know diagnoses plus several chapters on cutaneous symptoms, syndromes and on basics in Dermatology. All materials were written in the Wiki- short DOIT style and are installed on the Cyberderm website (www.cyberderm.net). In addition, the same is written in a long and more detailed text form. The long text is published as a PDF version. In addition, all diagnoses and cutaneous symptoms and syndromes received a grading of importance. The time and structure for lecturing was revised.

**B.1. Project Identification**

Project Title	Harmonized European Dermato-Venereology Undergraduate blended LEARnIng Implementation and Training
Project Acronym	HEDU_LEARN_IT
Project Start Date (dd-mm-yyyy)	01-09-2018
Project Total Duration (Months)	36 months
Project End Date (dd-mm-yyyy)	31-08-2021

**C. Priorities**

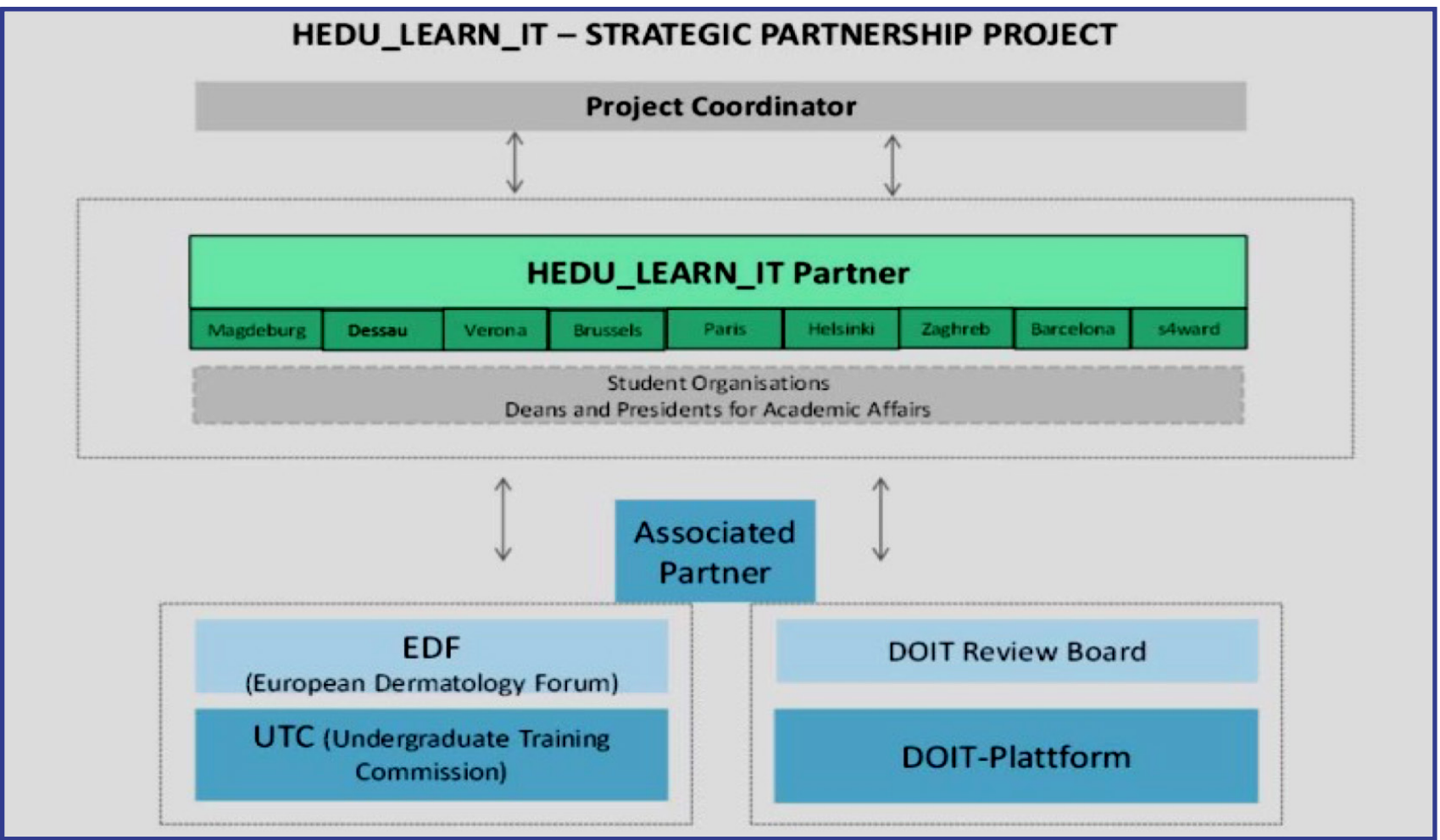
Please select the most relevant horizontal or sectoral priority according to the objectives of your project.

HIGHER EDUCATION: Supporting effective and efficient higher education systems

Please select other relevant horizontal or sectoral priorities according to the objectives of your project.

HIGHER EDUCATION: Promoting internationalisation, recognition and mobility, supporting changes in line with Bologna principles

HORIZONTAL: Open education and innovative practices in a digital era



## Objectives of the project

The aims of the Harmonized European Dermatology Undergraduate Training by Strategic Partnership (HEDU\_LEARN\_IT)-Program are:

1. elaboration of standards for an harmonized undergraduate Dermato-Venereology-training in 8 European partner-universities in Belgium, Croatia, Finland, France, Germany, Italy, Spain ; Not only the immediate project partners but also all members of the European Dermatology Forum (200 teaching professors from 28 European countries) have committed their sincere interest in the project. One partner has a more than 15 years experience in e-learning and running different platforms for e-learning (Swiss4ward).

2. promoting an innovative blended learning concept by combining classical teaching strategies with interactive e-learning tools (DOIT; www.cyberderm.net) in an inverted (flipped) classroom setting;

4. disseminating of the project and promoting harmonisation of undergraduate training in Dermato-Venereology in Europe after finishing the funded-project-phase under the immaterial support of the European Dermatology Forum (EDF) and its Undergraduate Training Commission (UTC);

4. sustaining the concept beyond the sponsored time frame

## Grading of Diagnoses / Importance

Learning Objectives according to the European survey from 26 universities throughout Europe.

Each disease or pathological condition gets a ranking of essential know-how can be given and will be quoted A, B or C.

A - corresponds to common diseases that the GP should be able to diagnose and to treat.

B - corresponds to the diseases which should be referred to the dermatologist, but is still within the capacity of the GP to evaluate the emergency and to make the first intervention/management step and the GP should be trained to follow the patient in conjunction with the dermatologist.

C - is for the diseases that the GP should know just enough to categorize and understand and to give information to the patient and the patient family, but referral to DermVen essential.

Diagnoses	Grading of importance	Time
<b>1 INFLAMMATORY DERMATOSES</b>		
<b>1.1.1 Urticaria, Angioedema, Urticaria Syndromes (8.5)</b>		
1.1.1.1 Urticaria	A	1h
1.1.2 Angioedema	B	
<b>1.1.2 Eczematous Dermatoses</b>		
1.1.2.1 Atopic Dermatitis	B	2h
1.1.2.2 Allergic Contact Dermatitis	B	
1.1.2.3 Irritant Contact Dermatitis	B	
1.1.2.4 Nummular Dermatitis	B	
1.1.2.5 Seborrhoeic Dermatitis	B	
1.1.2.6 Napkin Dermatitis (classical)	B	
1.1.2.7 Dyshidrotic Dermatitis	B	
<b>1.1.3 Drug Related Dermatoses</b>		
1.1.3.1 Drug Reactions	A	1h
1.1.3.2 Erythema Multiforme	A	
1.1.3.4 Stevens-Johnson Syndrome	C	
1.1.3.5 Toxic Epidermal Necrolysis	C	
1.1.3.6 Drug related rash with eosinophilia and systemic symptoms (DRESS)	C	

## Evaluation by the Students

Goal of Feedback HEDU\_Learn\_IT Intellectual Output :

Getting information on the degree and quality of implementation of new teaching and learning concepts (blended learning-inverted classroom). The answers were evaluated by the local teacher with and without the students and project team. After the first consensus meeting and text module content (Delphi agreed), the diagnoses with ranking A,B and C text parts were implemented on a step by step basis on the electronic platform accompanied by the electronic feedback tests with the students. All university partners handed out a basic and follow-up questionnaires to selected groups of 12 to 15 medical students.

Cross check of validity and functionality is performed at a Higher Education of Learning-Meeting in addition with external reviewers (Derm-Ven and Gen.Practitioners).

## Structure recommendation

Current Structure of Teaching and Training*	Recommendation for future Teaching and Training**
<b>Hours: varying between 30 and 120</b>	<b>Hours: min 60</b>
<b>Lectures:</b> 60% - 70 %	<b>Lectures:</b> 40% - 50 %
<b>Seminars / Workshops:</b> 10% - 20 %	<b>Seminars / Workshops:</b> 20% - 30 %
<b>Beside Teaching:</b> 10% - 20 %	<b>Beside Teaching:</b> 20% - 30 %
<b>Overload of front lecturing / no immediate available materials to prepare for upcoming lecture / no sufficient lecture related material for recapitulation and self testing</b>	<b>Less exposure for front lecturing / immediate available materials to prepare for upcoming lecture / sufficient lecture related material for recapitulation and self testing</b>
<b>Less time to see patients at bedside training</b>	<b>More time to see patients at bedside training and to deepen knowledge in important and rare diseases in seminars or workshops</b>
<b>Less time focusing on important and rare diseases</b>	
<small>* Surveys done across Europe by European Dermatology Forum / Undergraduate Training Commission</small>	<small>** Recommendation by the project partners according to harmonization of teaching contents and advantage of blended e-learning</small>

## In short, the results of the project are as follows:

- a new basic and harmonized European Catalogue of Learning ObjectivesEHC-DV,
- a complete rewritten content of diagnoses,
- restructured curriculum for undergraduate training in Dermatology and Venereology in combining it according to a blended learning concept in an inverted (flipped) classroom,
- recalculated amount of lectures, seminars, bedside teaching, workshops and recommendation of the new format,
- implementation of the new curriculum at the 8 partner universities, further implementation and updating of the new curriculum to all EU countries by EDF.