

3D4U: 3D Concepts for Fashion Education in Ukraine

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ABSTRACT

This press release presents a short overview of Erasmus+ Project No 101128856 (3D4U) and training activities performed in Dresden University of Technology (TUD). Within the project, two fundamental courses in 3D technologies were developed by TUD. The learning materials were presented to Ukrainian partners, adapted during the trainings and uploaded to the project collaboration platform.

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Communication

According to the EU's technology trends in the textile industry, the adoption of digital and environmental technologies has become crucial to the industry's renewal. 3D design concepts offer a new way to support fashion businesses in a challenging environment. The Erasmus+ Project "3D Concepts for Fashion Education in Ukraine – 3D4U" No 101128856 (the Programme ERASMUS-EDU-2023-CBHE) [1], aims to refresh Ukraine's textile and clothing workforce with new skilled professionals ready to face the challenges of Industry 4.0. In this regards, three European universities (IHU – International Hellenic University, Greece; TUD – Dresden University of Technology, Germany; Gheorghe Asachi Technical University of Iași, Romania) are sharing their experience in teaching 3D emerging technologies to textile and fashion students with Ukrainian colleagues. The scope of the project is to make the Ukrainian fashion sector aware of the use of 3D concepts, such as 3D bodies scanning, Digital Avatars, 3D Digital Design, Virtual Prototyping, Additive Manufacturing and Virtual Showroom, and as a continuance to accelerate the rate of adoption and their influence on the design, development, production and promotion of fashion products.

Under the project TUD, as EU partner, developed two educational modules based on its extensive experience and expertise in 3D technologies:

- Scanning and 3D human modeling (Prof. Yordan Kyosev) [2]
- Additive Manufacturing for textiles and fashion (Dr. Hassan Saeed).

Each module consists of three units, covered the main topics and can be adapted to the needs of certain educational program or stakeholder's requests.

As part of the project, two training sessions (on-site and on-line) were held in September and December 2025 by the Chair of Development and Assembly of Textile Products at the Institute of Textile Engineering and High-Performance Materials Technology, TUD. Each module was presented as combined activities of lectures (Fig. 1), practices (Fig. 2), and individual tasks. Totally 30 fashion professionals and PhD students from three Ukrainian universities took part in the trainings:

- Kyiv National University of Technologies and Design
- Khmelnytskyi National University
- Lutsk National Technical University



Fig.1 Lecture in 3D scanning



Fig. 2 Practical exercises in 3D scanning

At the end, participants got experience and skills on diverse 3D data use, ranging from 3D scanning up to 3D additively manufactured real parts. It enhanced their digital skills and will allow to use the Industry 4.0 principles in their future educational and research activities.

The educational materials developed under the 3D4U project are available at the project's educational collaboration platform [3] as an Open Educational Resource (OER) and licensed under the Creative Commons Attribution 4.0 International (CC BY 4.0) license.

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3D CONCEPT FOR FASHION
EDUCATION IN UKRAINE