AUDACES PATTERNMAKING AND 4D DESIGN SOFTWARE USAGE EVALUATION REPORT – 2025

Marmara University Vocational School of Technical Sciences – In collaboration with Eksmen Makine

1. Introduction

In the rapidly digitizing textile and fashion industry, supporting design and production processes with digital tools has become increasingly important. As Marmara University Vocational School of Technical Sciences, we have integrated the Audaces Patternmaking and 4D Design software, developed by Audaces, into our curriculum to align with this transformation and enhance our students' digital competencies.

2. Scope and Purpose of the Software

Audaces Patternmaking accelerates production processes with functions such as digital pattern creation, grading, and marker planning. Audaces 4D Design enhances the design process with realistic and fast virtual garment design and 3D visualization features. Both software programs have been licensed for educational use in the Fashion Design and Apparel Production Technology programs.

3. Institutional Information

Eksmen Makine, a well-established provider of leading brands in the textile and ready-to-wear industries, is the official distributor of the Audaces Patternmaking and 4D Design software in Türkiye. Through the collaboration between our school and Eksmen Makine, students have been granted access to the Audaces Idea platform, which is headquartered in Brazil.

Audaces Idea integrates automatic cost estimations and technical documentation, facilitating seamless communication across departments and ensuring synchronization between development and production. Designed to streamline and automate processes, it saves time for studies and projects and helps launch collections to market on time.

This collaboration aligns with the educational objectives of the Fashion Design and Apparel Production Technology programs, particularly regarding digitalization and the integration of new technologies. It also meets sectoral expectations and our institutional vision of training competent technical staff to keep pace with rapid industry advancements.

4. Software Licenses and Areas of Application

Software Name	License Type	Duration	Area of Use	Training Format	Number of Participating Students
Audaces Patternmaking	Pattern Design	1 Year	Pattern Design	Semester course + short training	70
Audaces 4D Design	4D Design & Product Development	1 Year	Product Design	Semester course + short training	70

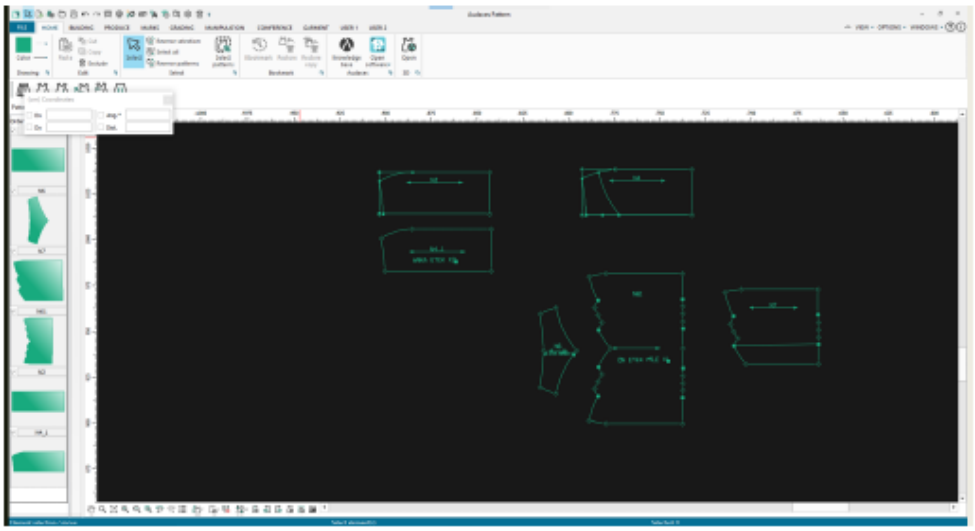
5. Training and Implementation Process

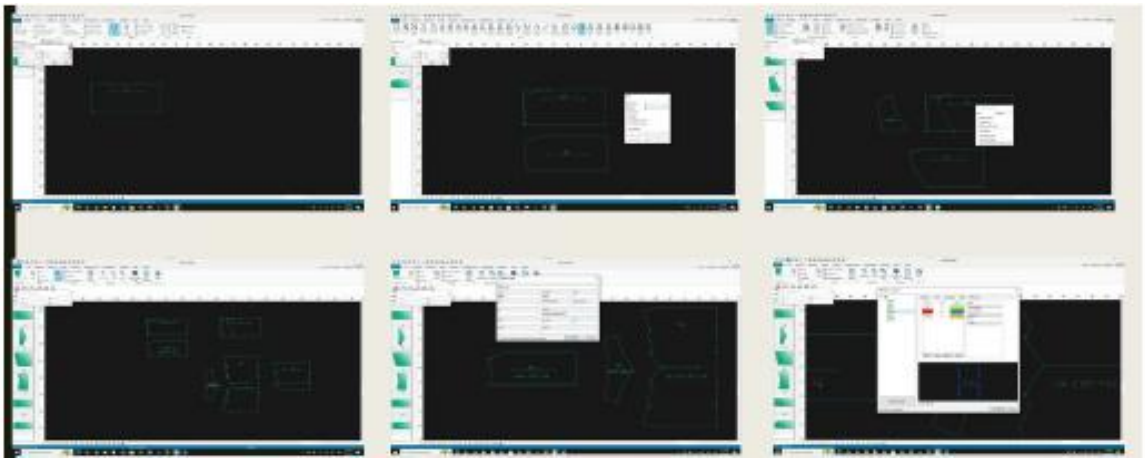
- During the semester, the Audaces Patternmaking and 4D Design (IDEA) modules were used in the "Garment Construction" and "Computer-Aided Garment Design" courses, as well as during the Winter School.

- Audaces software was actively used in digital pattern development, technical model creation, and 3D design courses. Through these programs, students practiced pattern drawing, size grading, fabric layout planning, and 3D garment simulation. These practices enhanced both the technical and design perspectives of students, preparing them effectively for the industry.
- As part of the "2025 Winter School" held from January 27 to February 21, a training titled "360 Basic Patternmaking and 4D Styling" was conducted from February 10–14, 2025. Ten students selected from applicants participated in this five-day online training, delivered by a certified company instructor.
- For a detailed Winter School report, see: *2025 Winter School Evaluation Report*

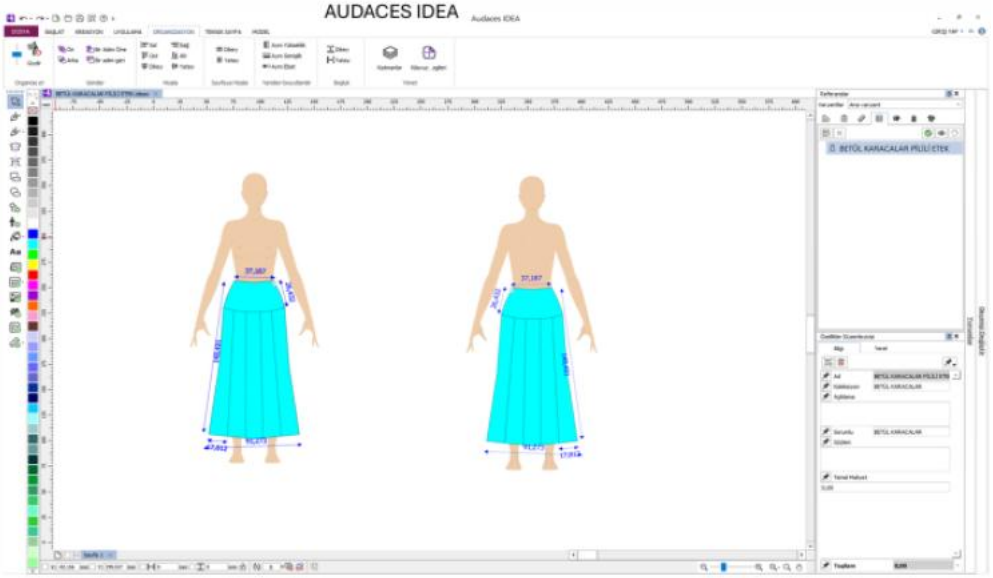
6. Student Achievements and Projects

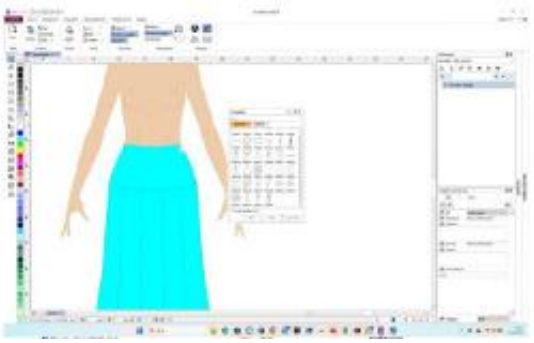
- Sample student projects created using Audaces Patternmaking and 4D Design software are presented below.

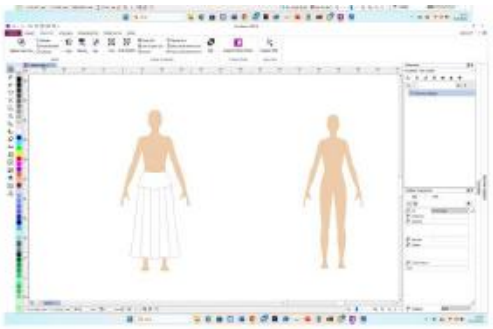


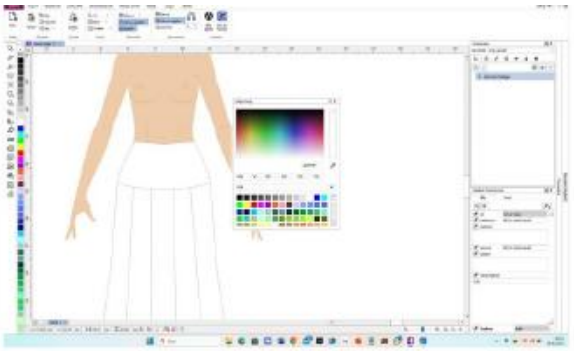


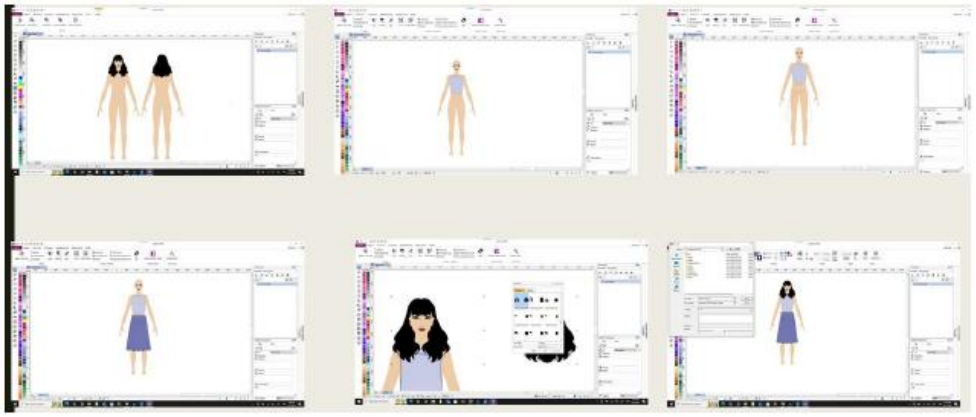
AUDACES IDEA

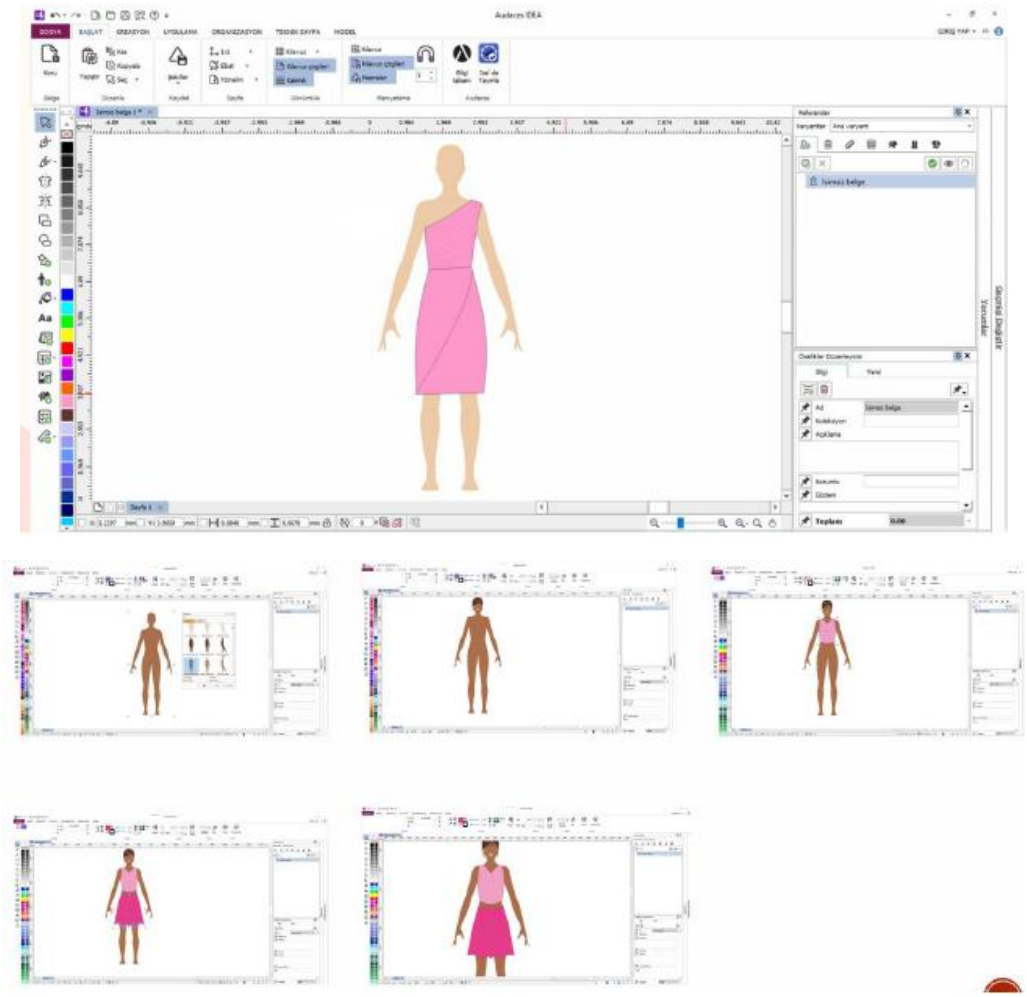












7. Sectoral Added Value and Collaboration

Audaces Patternmaking and 4D software are vital components of digitalization in the fashion and ready-to-wear industry. Their integration into the educational process ensures that students are well-prepared for the digital production environments of the sector. The acquisition of skills such as pattern accuracy, digital prototyping, and simulation boosts graduates' employment potential and industry value.

Furthermore, this initiative exemplifies a concrete outcome of university–industry collaboration in knowledge and technology transfer. Providing access to Audaces software, ensuring that students use the latest versions, and supporting training activities like Winter School demonstrate the company's direct contribution to the education process. Through this collaboration, students gain both technical competence and sectoral awareness by experiencing digital tools aligned with industry expectations.

8. Conclusion and Recommendations

- The in-class and extracurricular training activities conducted using Audaces software have contributed to students' practical understanding of digital production processes and supported their development as graduates equipped with modern tools. It is recommended that this collaboration continue, that updated versions of the software be monitored, and that the use of the software be expanded through sectoral projects.