

## The Impact of Education Programs in Design Museums on Higher Education Design Students' Learning Outcomes

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### Abstract

In design education, physical spaces are crucial for creating meaningful learning experiences. Unlike traditional classrooms, interactive environments like design museums and galleries play a pivotal role in fostering creative thinking and hands-on application. These spaces offer students the chance to engage with professional exhibitions, participate in workshops, and collaborate on projects, promoting social interaction, discussions, and reflections. This environment allows students to confront real-world design challenges, enhancing their understanding of the field.

While educational institutions recognize the importance of active and experiential learning environments, there is a gap in research on how design museums contribute to these educational goals. Most learning spaces focus on classrooms and studios, overlooking the unique role of design galleries in merging education, exhibition, and public engagement. This study emphasizes museum education programs, highlighting their ability to transform exhibitions into structured learning experiences. Through object-based inquiry, dialogic tours, workshops, and collaborative activities, these programs reflect the experiential learning cycle—encounter, reflection, conceptualization, and experimentation—within cultural, ethical, and systemic contexts that are difficult to replicate in classrooms.

Furthermore, it is crucial to evaluate the impact of design museums on student performance, creativity, and professional preparedness. This study seeks to determine whether participation in gallery exhibitions leads to better learning outcomes and which activities, such as workshops or discussions, are most effective. It explores how design galleries support students' academic and professional growth.

The research investigates how design museums and their educational programs can enhance student learning by providing engaging exhibitions and activities. It examines the relationship between these experiences and student achievements, aiming to optimize them for diverse learning opportunities, creative expression, and constructive feedback from peers and professionals. The focus is on enhancing student learning through captivating exhibitions and dynamic programs in design museums and educational institutions.