

Susanne Goetz

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Fashion Institute of Technology (FIT)



Session: Sustainable and Smart Fashion

Title of talk: Designing with Emerging Materials- A model for project based STEAM education

Bio: Susanne Goetz is an Associate Professor in the Textile/Surface Design Department. She has worked internationally as a textile designer, lecturer, researcher, and project manager. Her expertise is in printed textile design, sustainable textiles, and artisanship, with a focus on both digital and traditional approaches to design and production. Her research and teaching practice focuses on global sustainable design, manufacturing and business practices, as well as innovative interdisciplinary work within the overlap of design and science.

Susanne holds a MSc in Textile and Apparel Technology Management from North Carolina State University and a BA in Textile Design from Hof University of Applied Sciences, Germany. She is a Fulbright Alumna and a fellow of the Higher Education Academy.

Abstract: Centered at the creative intersection of textile design and science, this interdisciplinary undergraduate course is an example of sustainability focused science education in a non-traditional environment. Design-led experimental research promotes student engagement with scientific principles and the use of critical thinking, creativity, and teamwork to solve complex problems. Acquiring and applying basic principles from both subject areas, such as knitting with biomaterials or embroidering soft circuits, students envision and prototype sustainable solutions to real world challenges.