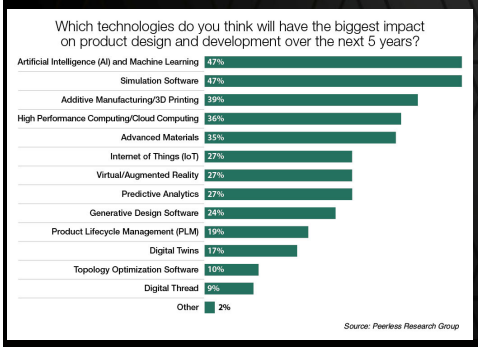
Ansys

SIMULATION WORLD

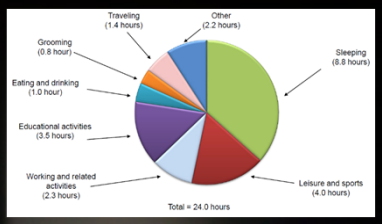
MAY 18, 2022

An Ansys Global Simulation Conference Series Event



Dr. Ivana Milanovic,
Invited Speaker for Academic Track

How Academia is Shaping the Future



Undergraduate Digital Wonderland [Simulations in Lecture-Based Courses]

Milanovic outlines the systematic approach to simulation-supported teaching & learning across the undergraduate engineering curriculum.

Early and consistent integration of modern computational skills and inquiry-based learning increases students' engagement, develops essential skills for entry into an Industry 4.0 workforce, and facilitates a deeper understanding of theoretical concepts.

The significance of this educational method is in

1. bringing the digital engineering process into the curriculum,
2. increasing the time students invest in studying,
3. ensuring access to real-world experiences for all learners, and
4. creating a roadmap for curricular design and assessment easily transportable across science and engineering disciplines.

The time use results show 1.5 hrs per week for each hour of class. This is above national average of about 0.92 hrs.

The student evaluations of teaching has the course means (4.8 and 4.4) above the department (4.3).