Autodesk® and ASME collaborate on cutting-edge Industry 4.0 Modular Learning Content, empowering time to talent acceleration with real-world examples as requested by faculty.



AUTODESK

CHALLENGE

Rapid technological transformations

Emphasized focus on theory in engr. education

■ Widening gap of "time to talent"

CHALLENGES FOR EDUCATORS

(TIME

Difficult to stay abreast of constant shifts and development.

†† DIFFICULT ADJUSTMENT

Faculty struggle with adapting to new concepts.

☐ GAPS IN CURRICULA

Lack of hands-on exp. on sustainability, advanced mfg. & interdisciplinary skills.

□ LIMITED RESOURCES

Equipment and funding are scarce.

▼ TOP SKILLS ACROSS 3 ROLES

MECHANICAL ENGINEER	Design for	Generative Design	AI/ML
MANUFACTURING ENGINEER	Manufacturing		Integrated CAD/CAM
		Robotics · ·	Simulation
CNC MACHINIST	CNC Machining		Additive Mfg.

▼ EDUCATORS' DESIRED RESOURCES

Real-world projects
Step-by-step guides and practice exercises
Knowledge bank and challenge exercises
Instructor guides
Videos
Assessments

SOLUTION

Autodesk & ASME have solved this challenge by providing customized, rich, modular Industry 4.0/advanced manufacturing learning content for both students and faculty.

- Self-Assessment
- Faculty Instructor Guides
- Practical, Bite-Sized Projects
- **▶** Instruction
- Summative Assessments

KEY TAKEAWAYS

- Leverage university industry boards & keep current on workforce developments.
- ABET's criteria provides ample scope for personalized learning.
- Incorporating real-world projects in class-room to inspire students about engineering.
- More than 77% of design and manufacturing respondents prioritize technology, new products/services, and AI/emerging technologies for future investment.* Accelerating Industry 4.0 education is critical to success.

* Autodesk's 2024 State of Design & Make report

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