

Korea University

Developing 3D experts
with 3DVIA

Before we adopted 3DVIA, we could not produce complex graphic designs. Now, we can produce highly detailed graphic work based on 3D data. Evaluating student work is now much easier because we can review it in 3D.



Woo Chun Choi
Professor
Department Chair
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Engineering
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Challenge

Korea University's School of Mechanical Engineering (KUME) wanted to improve the quality of its curriculum by providing students with practical 3D software experience.

Solution

By adopting 3DVIA from Dassault Systèmes, KUME has been able to make the transition from traditional 2D tools and enable students to experience and learn using 3D software.

Benefits

Students now produce advanced 3D graphic designs and gain important practical experience that will help them to achieve their professional goals.



Top school develops next-generation mechanical engineers

Founded in 1964, Korea University's School of Mechanical Engineering (KUME) boasts 11 world-class engineering laboratories. It focuses on training next-generation mechanical engineers in order to improve the international competitiveness of the Korean machine industry.

These efforts have gained KUME domestic and international academic recognition and many awards. In 2005, the Korean Ministry of Education selected KUME as a Brain Korea 21 research group, a program to make Korean research universities globally competitive and to produce more high-quality researchers. KUME was also ranked first among related departments nationwide by the University Evaluation Committee of the Korean Department of Education.

The best tool for the job

In its drive to innovate and improve its curriculum, KUME wanted to include practical 3D graphic design skills to complement its theory-based courses.

"To conduct an engineering certification program, we needed to differentiate our curriculum with 3D. We had to find a way to upgrade our existing 2D data to realize lifelike 3D content," said Woo Chun Choi, Professor and Department Chair.

After evaluating various 3D tools, the department chose Dassault Systèmes' 3DVIA as the most robust solution for developing real-time 3D applications for viewing machine models.



Woo Chun Choi
Professor Department Chair
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3DVIA is easy to use. It's simple for instructors to teach and it's very good for helping students to visualize data.

Improved quality of curriculum

With 3DVIA, students can produce 3D product content enabling them to proactively engage in the classroom. In turn, its fast and powerful performance makes the class more productive and effective.

“Before we adopted 3DVIA, we could not create complicated graphic designs. But now, we can produce graphic work consisting of very complex data. Evaluating students’ work is much easier because we can see it in 3D.” said Professor Choi.

“Our students are very satisfied with 3DVIA. They show a keen interest in class because they can now produce 3D images.” he added.

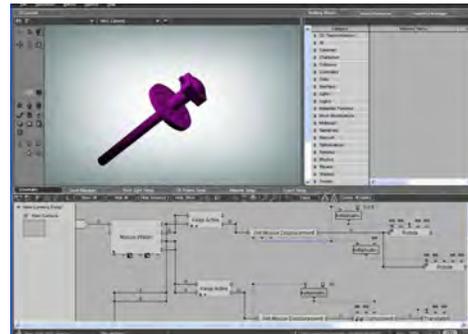
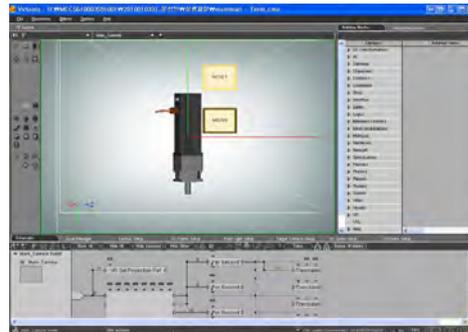
Since 3DVIA makes it easier to develop 3D content, KUME’s engineering students are gaining practical skills that will help them in the future careers. “3DVIA is a solution which is very easy to use and learn. I think it is the best tool for both instructors and students. In classes using 3DVIA, students can gain professional skill, not just theoretical knowledge,” said Professor Choi.

Design contest draws much interest

KUME holds regular design competitions to increase students’ interests in 3D. This provides teaching staff with good opportunities to evaluate students’ performance. After the university adopted 3DVIA, Professor Choi found significant improvements in students’ work.

“After 3DVIA training, our students’ design capabilities were greatly improved. I think the quality of their 3D designs is going to continuously improve.”

Due to significant student interest in the new curriculum and the improvement in the sophistication of their design work, KUME now plans to extend 3DVIA training to other curricula.



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