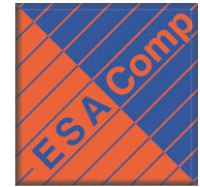


ESAComp Software in Education



Driven by the interest in composite materials by ever wider industry sectors, educational establishments have reacted and modernized the content of their courses in order to meet industry demand for young people competent in all aspects of these complex materials.

ESAComp has a proven track record as a useful resource to many educational establishments providing courses in composite materials.

Talking to the Professors

In addition to their popular Composite Summer Academy, FHNW - Fachhochschule Nordwestschweiz in Switzerland offers courses in Composites Processing and Advanced Composites. Professor Clemens Dransfeld, Head of the Institute of Polymer Engineering, says he "first came across ESAComp at a sandwich structures conference many years ago". Since 2005, ESAComp has become an integral part of their teaching approach.



In Spain, E.T.S.I. Aeronáuticos – Universidad Politécnica de Madrid, Professor Alfredo Güemes has been using ESAComp since 2003. The university offers a 45 hours course (6 ECTS) on Composite Materials in the 3rd year of the Aeronautics degree, and also a Masters (60 ECTS) on Composite Materials.

At FHNW, "Our 'Advanced Composites' course is to a large extent based on using ESAComp in the classroom", says Professor Dransfeld.

One example is the 'Laminate Theory III: Failure Criteria' course work takes the student through the



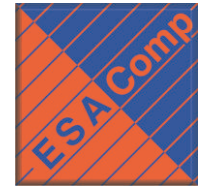
process of determining a failure/design envelope using ESAComp in order to compare different failure criteria for a particular material.

E.T.S.I students also gain hands-on experience of ESAComp. "We have a rental agreement for ESAComp, so each student may have a license for their PC", explains Professor Güemes. Every year about 200 student licenses are issued which are active for 1 year. "Each student is given a task which covers most of the possibilities offered by ESAComp".

Read the full interview on our website: <http://www.esacomp.com/home/57-talking-to-professors>

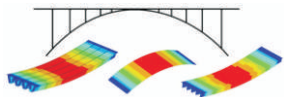


ESAComp Software in Education



Ambitious 'green' student projects

Student projects that combine the design and analysis aspects, provided by ESAComp, with the practical manufacturing also feature in higher-education in other universities.



ESAComp bridge contest. Bridges are a familiar subject for student projects – the winner judged as that having the highest specific strength.



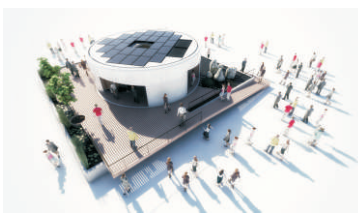
ERA, the Electric RaceAbout car, was designed and built for the Progressive Insurance Automotive X-

Prize competition by students and faculty of Helsinki Metropolia University of Applied Sciences in Finland. In 2010, ERA was 2nd in their 'side-by-side' class, only 0.0172 seconds behind after 100 miles.



The Biofore Concept Car, designed and manufactured by students from Helsinki Metropolia

University of Applied Sciences, premiered at Geneva International Motor Show in 2014. It showcases the use of new innovative biomaterials in the automotive industry, with parts traditionally made from plastics replaced with high-quality, safe and durable biomaterials.



ESAComp also featured in ReVolt, the TU Delft's team entry for the Solar Decathlon 2012. Here, competitors

from universities around the world each design and build a sustainable, economically viable and aesthetically pleasing house.



Each year Componeering sponsors different Student Motorsport teams by making ESAComp available to the teams for the entire season. Over the years, our teams have been very successful winning various prizes and awards for their vehicles.

ESAComp EDU licenses – for the classroom and beyond

Componeering offers ESAComp licenses for educational use that can be adapted to meet the needs of any particular university. To date, schools and universities in over 20 countries are ESAComp users.

All our EDU license packages are very competitively priced and universities use software with exactly the same functions as our commercial licenses.

Once ESAComp has helped you master the basics of composite design, the advanced features and simulations are of interest to both student projects and PhD research work.

Contact Componeering for more information about our EDU license packs:

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