

# Digmat to be Introduced in the Computer Aided Design and Analysis Course at University of Cassino and Southern Lazio

*Supporting the development of tomorrow's engineers with continued collaboration*

LUXEMBOURG -- (May 20, 2014) – [e-Xstream engineering](#), an MSC Software Company, and leader in non-linear multiscale material modeling solutions, today announced the inclusion of [Digmat](#) software in the Computer Aided Design and Analysis course of [University of Cassino and Southern Lazio](#) - as a continuation of a long-term collaboration between the University and MSC Software, 100% owner of e-Xstream. This course - built on a 2-year Machine Design course - is an opportunity for students to acquire specific skills in the context of material design, and gain expertise to solve real world problems.

"The fundamental goal of the Computer Aided Design and Analysis course is to teach the students how to solve machine designs and apply them in real life. Furthermore, they learn how to use computational analysis in a conscious way," said Nicola Bonora, Professor of the University of Cassino and Southern Lazio for 18 years and CEO of TECHDYN Engineering. Professor Bonora has been using [MSC Marc](#) Nonlinear FEA since 1998 to bring added value to his teaching program at the university. He says, "We have a long collaboration with MSC Software. We are not only a user but also a partner to MSC to develop special capabilities such as material modeling and beta testing. To further increase the value of this course, we have now added Digmat as well to prepare students for successful careers."

Digmat can provide the students new and improved insight in the way material comes into the design process to show that there are tools in which the material is not only a number but more a design parameter. They will understand that the material can be used as a solution to improve the design of the part and help them to understand the concept of micro and macro scale modeling.

"Digmat offers an integrative solution to move from material modeling to the prediction of the structural performance of composite parts. It is used as a virtual laboratory to better understand and predict the behaviour of complex composite material," says Dr. Bernard Alsteens, Manager of Customer Services at e-Xstream.

Upon completion of the course, these newly trained experts become extremely valuable to companies developing technologies or manufacturing complex products and requiring a workforce capable of combining skills and knowledge in modeling materials.

"e-Xstream engineering is proud to contribute to the Computer Aided Design and Analysis course and support the education of competent professionals with state-of-the-art knowledge in composite material modeling," says Roger Assaker, CEO of e-Xstream engineering.

### **About the University of Cassino and Southern Lazio**

The University of Cassino and Southern Lazio is an Italian public research university located in Cassino, Italy. It was established in 1979. Because of its geographical position, the University is now a meeting point for the regions of southern Lazio, Campania and Molise. The international orientation of the university focuses both on research as well as teaching activities. The University of Cassino plays an important role on the territory and serves as a "social lift". In fact, 34% of our graduates come from families of farmers and workers and find in our institution a way for social escalation. More info: <http://www.unicas.it>

### **About TECHDYN**

TECHDYN Engineering is an engineering and research company started as Academic spin-off of the [University of Cassino and Southern Lazio](http://www.unicas.it). The firm was founded in 2011 with the mission of adding value to the know-how and technical competences of the Machine Design research group in the field of modeling, testing and design of components and materials operating under extreme conditions. More info: <http://www.techdyn.it>

### **About e-Xstream engineering**

Founded in 2003, e-Xstream engineering is a software and engineering services company 100% focused on the multi-scale modeling of composite materials and structures. The company helps customers, material suppliers, and material users across many industries reduce the cost and time needed to engineer innovative materials and products using Digimat, the nonlinear multi-scale material and structure-modeling platform. Since September 2012, e-Xstream engineering is a wholly owned subsidiary of MSC Software. The e-Xstream engineering corporate logo and Digimat logo are trademarks or registered trademarks of e-Xstream engineering SA. More info: <http://www.e-Xstream.com>

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