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Teaching engineering statistics with technology, group learning, contextual projects, simulation models and student presentations.

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Summary: This article discusses our teaching approach in graduate level Engineering Statistics. It is based on the use of modern technology, learning groups, contextual projects, simulation models, and statistical and simulation software to entice student motivation. The use of technology to facilitate group projects and presentations, and to generate, model, and analyze data in practical engineering applications, is discussed. Class topics division, course objectives, classroom strategies, testing, and grading schemes, software tools used and results obtained are also presented.

Classification: K15 U75 R25 D45

Keywords: university teaching; computer as educational medium; teaching methods; experience reports; instructional modes; student presentation; group work; Internet; evaluation; statistical software; simulation
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