

Developing an introductory statistics course for engineering students at NTNU

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Recently, the Norwegian University of Science and Technology (NTNU) merged with three Norwegian colleges. As a consequence, the statistics group at the Department of Mathematical Sciences is now offering a new undergraduate statistics course for 900 engineering students in 11 different disciplines, spread across three cities. Our aim is to develop a statistics course that is relevant for all students and tailored to meet the needs of the various engineering programs. This includes statistical analysis and computations in Python, using Jupyter Notebooks as a tool to activate and guide students through coding and statistics in Python. We intent to develop an integrated curriculum as well as contextualized learning activities, resources and assessment. In this talk I will discuss experiences from our first semester of teaching this course (digitally under Covid-19 restrictions), what we have learned from reaching out to engineering programs, and our plans for further developments and hybrid teaching.