

Kursrapport MM5012 Matematik II - Linjär algebra HT24

Antal respondenter: 1
Antal svar: 1
Svarsfrekvens: 100,00 %

. Beskrivning av kursupplägget.

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Students learned about vector spaces (over \mathbb{R} and \mathbb{C}), linear transformations, bases, eigenvalues and eigenvectors, inner product spaces, adjunctions, normal matrices, the spectral theorem, the singular value decomposition, and a little bit about classification of quadratic forms over \mathbb{R} .

. Kursens fördelar, beakta studenternas uppfattning i kursutvärderingar.

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Linear algebra is one of the most important and useful subjects in mathematics. Linear algebra is necessary in the majority of advanced math courses that students are likely to take. Linear algebra is also one of the most widely used mathematical subjects in applications to other sciences. In terms of its level, I believe the course provides a useful transition between the basic math classes, which emphasise computations, and the more abstract advanced classes, which focus on proofs. The linear algebra course is somewhere in the middle.

. Kursens nackdelar, beakta studenternas uppfattning i kursutvärderingar.

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We had a large group of students with a wide range of backgrounds, and it was impossible to pitch it at a level that was right for everyone. It was pretty much unavoidable that the course was too hard for some and too easy for others. But this is a problem common to all our courses, and is perhaps an inevitable consequence of the format.

It was the first time that I taught this course, and the first time I lectured in Swedish. I worked very hard on preparing the lectures, and tried to do the best I could. But inevitably there was a learning curve for me as well as for the students. While I lectured in Swedish, I usually answered questions in English, and sometimes I had to ask students to repeat their question in English. I suppose some students found it frustrating. On the other hand, some students wished I just lectured in English.

. Slutsatser samt förslag till förbättringar.

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Some students suggested to change the textbook. There may be better textbooks available. Then again, no textbook is perfect.
