

Kursrapport MM5023 HT23 period ABCD

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

. Beskrivning av kursupplägget.

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The course is an introductory course in combinatorics, going beyond basic counting. It covers many topics but not in great depth.

Topics:

Exclusion/Inclusion

Rook Polynomials

generating functions

recursion

graphs (Euler path, hamilton cycles, planar graphs and coloring)

Trees (Definition and spanning tree)

Optimization (Shortest path, minimal spanning trees, max flow min cut)

. Kursens fördelar, beakta studenternas uppfattning i kursutvärderingar.

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I think the material is funny, is rooted in applications so it is interesting to both student with a theoretical point of view and to those with a more applied. I think the new lecture notes were ok. Some of the student apparently have not understood that they had to be flanked to the book, so there are no graphs or examples because those can be found in the book. The passing rate and grade average are really good.

. Kursens nackdelar, beakta studenternas uppfattning i kursutvärderingar.

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It is online. Attendance is very low, participation non-existent. Only 16 people replied to the evaluations and I graded about 40 exams... The bonus point system does not really work. I wonder if removing finite geometry, and maybe adding matching is a good idea. I think that a better presentation at the beginning of the course is needed saying that we will touch many topics so they get an idea and can go deeper on their own, e. g. with a bachelor thesis.

. Slutsatser samt förslag till förbättringar.

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I think we should try to move back on campus but keeping the possibility to take it for distance students (I do not know how this can be done, but one idea is that students will have the possibility to choose between distance and campus version in Antagning - like it happens for Matte I, at the end we run a single course with a single exam). We keep a bonus point system, changing it a little bit, making it submittable online. And if we have a room in Albano we do the lecture in presence and at the same time broadcast it via zoom (this is not ideal, but like that I had 4 people attending the last lectures... so it cannot be worse). Maybe we keep the old recording if something goes wrong. In Frescati this is more difficult, but maybe still doable by using their documentcams.
