

## SEMESTERRAPPORT FOR KJM3810 Katalyse og industriell kjemi – H2017

Dette var første gjennomføring av emnet med nytt innhold og ny lærebok. Ambisjonen har vært å dekke homogen katalyse, heterogen katalyse og enzymatisk katalyse med en hovedvekt på konseptuell forståelse og særlig reaksjonskinetikk. Undervisningen i emnet var fordelt på tre faglærere; Stian Svelle og Mats Tilset fra UiO samt Morten Sørlie fra Ås. Alle tre har vært sitt spesialfelt. Noen av forelesningene ble podcastet.

Undervisningen var organisert med forelesning(er) hver uke og kollokvium til de fleste forelesningene som tar for seg kvantitativt stoff. Studentene forbereder sine besvarelser til kollokviene og presenterer for de andre studentene. Det var 11 studenter som avla ordinær eksamen og 6-7 som fulgte undervisningen regelmessig.

Det ble også arrangert en ekskursjon til Borregaard i Sarpsborg.

### Læremateriell:

Boka som er valgt er lettfattelig og enkel, men eksemplene innen heterogen katalyse er litt for knappe. Neste høst bør det suppleres med utvalgte kapitler fra andre bøker eller artikler.

### Eksamensresultatene:

Litt svakere resultater enn forventet basert på deltagelsen i undervisningen. Det bør kanskje være flere eksamensrelevante oppgaver tilgjengelige for studenten

### Planer videre:

Ved neste gjennomføring bør lærematerialet suppleres noe for å gi bedre og mer industrirelevante eksempler. Videre bør det gjennomføres flere regneøvelser og det bør være flere oppgaver tilgjengelige for studentene.

### Underveisevaluering:

Vi hadde ingen underveisevaluering.

### Oppsummeringsmøte for lærerne:

På bakgrunn av de noe svake resultatene, diskuterte vi at vi skulle uttrykke det forventede læringsutbyttet tydeligere.

### Sluttevaluering:

Det ble laget et spørreskjema som en del av studenten besvarte. Svarene er vedlagt. Kort oppsummert kan det virke som om ambisjonen med kurset fungerer greit; å dekke de tre emnene i ett kurs. Studentene etterlyser mer øvelser/oppgaver.

## Rapport fra «Evaluation - KJM3810»

Innhentede svar pr. 25. januar 2018 10:54

- Leverte svar: **6**
- Påbegynte svar: **0**
- Antall invitasjoner sendt: **0**

**How did the content of the course match the expectations you had when you registered?**

- Not weary well. To big focus on Biochemistry
- Quite well, I didn't expect that much metallo-organic chemistry to be curriculum. The rest were up to expectations.
- It was a lot more homogenous and biocatalysis than what i expected, at least on the exam.
- Pretty well, it covered catalysis in every form.
- Bra
- well

**What is your assessment of the structure of the teaching activities? Points to consider might be a) Which teaching elements do you consider to be useful; b) were there any elements of the teaching that should be reduced or discontinued; c) is there anything in particular that was effective for you?**

- Liked Stian as a teacher. Ok variation, could have more conversation about questions regarding the exam...
- I liked that students were encouraged to do the exercises on the board, rather than just the lecturer. I liked all the lecturers in all parts three parts. I would have liked all lectures to be podcasted so that it would be easier to review.
- I really liked that different specialists held the sector covering their field
- I really liked how we had several lecturers where each was an expert on their field. The lectures became more enthusiastic as everyone could talk about what they actually work with, something that's not easy to accomplish with one lecturer covering a whole course. Regarding the colloquium group, I prefer the "normal" way with the lecturer going through the answers and asking questions, opposed to when students are required to do so.
- Stortsett bra struktur, siden eksamen var likt fordelt mellom alle temaene var det litt mismatch tid brukt på de forskjellige temaene undervis i semestret. Savnet flere og mer varierte oppgaver i de temanen som ikke omhandlet generelt om katalyse, og heterogen katalyse. (Altså flere og mer varierte oppgaver i homogen katalyse og enzymer)
- I think, discussing the exercises together was a good practicing moment. But maybe the amount of colloquiums should be increased.

**What is your assessment of the exam? Did the questions match your expectations from the teaching activities and material?**

- To small focus on industries and hetero / homogenous catalyses...
- Good exam, the bio-cat, questions could have been more precise. It matched my expectations because the material handed out in classes were similar to the exam questions.
- The exams was not that much like the lecture. 2/3 of the exam was for. Less than 1/3 of the corriculum
- I stumbled a bit since it was very different from the old exams we were given to practice, but it did indeed cover what we had actually been studying through the semester. In this regard it should have been expected to be as different as it was, which is a good thing.
- Eksamen var for det meste som forventet, oppgaven om homogenkatalyse derimot var ikke god. I forhold til hva som ble gjennomgått i forelesninger på temaet, og informasjon som ble utgitt virket det som vi manglet hjelpemidler i form av tabeller for å løse oppgaven.
- The exam did match the curriculum

**What is your assessment of the teaching material, the textbook, lecture notes, and problem sets?**

- Liked the book, easy to understand!
- They were good. Could have had a better structure to the bio problem sets, these felt more like ramblings rather than thought out questions.
- The book and the lectures was good
- I liked the book. It was a bit general on a few points, but overall it gave the necessary information while also being easy to read. The lectures was, as said, fantastic. The work needed for each problem task varied a lot, but overall they were great and relevant for the final exam.
- Bra, men se spørsmål 2.
- the textbook was simple to read and had a clear but simple vocabulary.

**What is your assessment of the organization of the course? Did you receive the information and material you needed?**

- Yes
- It was good ! I felt like I did yes.
- Liked the excursion; having the opportunity to see the practical use of the theory we learned.
- Yes, always.
- På bakgrunn av manglende hjelpemidler på eksamen virker det som det har vært middels dårlig kommunikasjon mellom foreleserne når eksamen ble laget. Dette burde gjøres bedre i fremtiden.
- yes

**Is there anything else you would like to comment on?**

- Didn't like that we had several lecturers... It was hard to understand the man from ås...
- please podcast next time. Elsewise I liked the trip to Borregaard thou it could have been tailored more to our course, still it was interesting and fun.
- I think I've covered my thoughts!
- Interessant og kult kurs
- no