Emnerapport 2015 høst

KJEM243

Faglærers vurdering av gjennomføring

Praktisk gjennomføring

The lecture covers topics in organometallic chemistry, metal-bond properties and catalysis (divided in two parts). The courses were theory based lectures (4 hours per week/7 weeks) and tutorial (4 hours per week/5 weeks). The lectures were given in the auditorium 3 & 4. The lectures were taught in English and based on "Organometallic Chemistry and Catalysis" textbook from D. Astruc. To complement the textbook, the teacher provided to the students lecture notes (≈160 pages) and supported by several relevant extra documents/articles. In addition, extra information, detailed examples and clarifications have been given throughout the use of the blackboard and during the tutorial. The assessment form was a final written exam (4h).

Strykprosent og frafall

Number of candidates (registered): 12; Number of student presented at the examination: 10
Number of pass: 6. Number of fail: 4.

Karakterfordeling

KJEM243: A: 17%, B: 33%; C: 17%, D: 17%, E: 17%, Average: C
The average rate is slightly lower than in 2014 (B).

Studieinformasjon og dokumentasjon

All educational materials (lecture notes, exercises, documents and articles) were posted on My Space. 80% of the students declared to have very good presented lectures (6, rating scale ranging from 1 to 6) and 20% as good (5).

Tilgang til relevant litteratur

See point above. All necessary literature was available on My Space.

Faglærers vurdering av rammevilkårene

Lokaler og undervisningsutstyr

Auditorium 4: blackboard often not clean.
Auditorium 3: Screen position not optimal

Andre forhold

Faglærers kommentar til student-evalueringen(e)

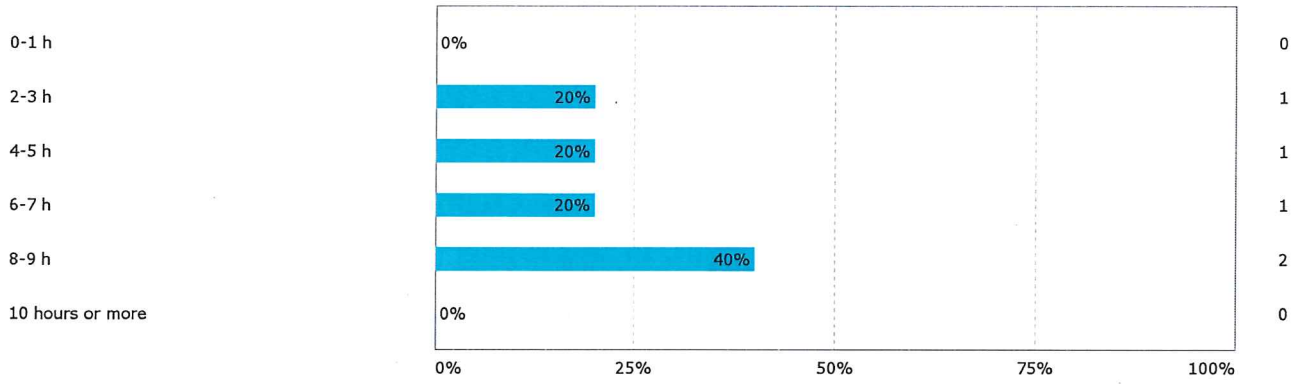
Metode – gjennomføring

Following the standard procedure, i.e. online and anonymous evaluation form (see below the evaluation form).

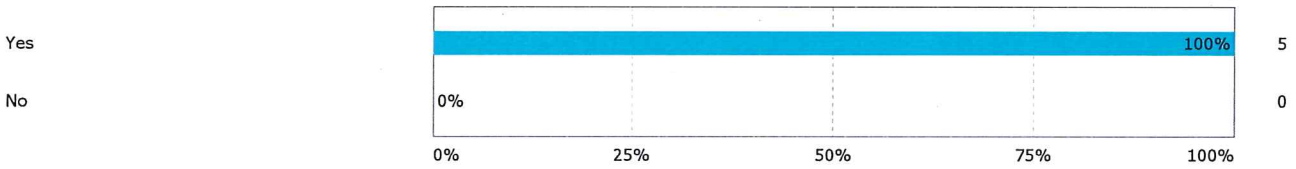
Oppsummering av innspill.

The level of student was largely inhomogeneous albeit 100% of students, who were attending to KJEM243, were studying toward a chemistry degree. Only 60% of the students stated to have the necessary background in chemistry of elements and organic chemistry to follow KJEM243 while 40% replied to lack sufficient background in inorganic chemistry and molecular modeling (requirement for attending KJEM243 include basic knowledge of general chemistry, chemistry of elements, organic chemistry, inorganic chemistry and molecular modeling).
A majority of students (80%) attended more than 75% of the lectures and 100% of students answered that the learning outcomes for KJEM 243 were meet and highly relevant for they for their studies, thesis and research activities.
With respect to the clarity of presentation of different topics during the lectures (divided in two parts), the students responded to be largely satisfied: to a very large degree clear/to a large degree clear (80% for the part on fundamental organometallic chemistry), and to a very large degree clear (60% for the part on metal-bond properties and catalysis). The overall rate for integrating and presenting in a coherent manner this wide range of subjects from fundamental organometallic chemistry to catalysis were evaluated very positively from the students, i.e 80% replied that it succeeded to a (very) large degree.
Regarding the tutorial sessions which offer further explanation about the theoretical aspects in an interactive manner, 40% of the students judged that the approach taken was very useful in a large degree for helping them in the learning process and 60% to large degree useful. Attendance to these tutorials was volunteering based.
The work load of the course was in general considered to be well-in-line with other classes of the same code level (60% spent less than 7h and 40% between 8-9h per week of self-study).
80% of students answered the learning outcomes of the lectures were (very) high (5 and 6, rating scale ranging from 1 to 6) and 20% (4), meaning that overall the students are satisfied about the selections of content made for this lecture and corresponds to most of student's expectations. (Comment from student: "*My time spent in the lectures was time well spent*")

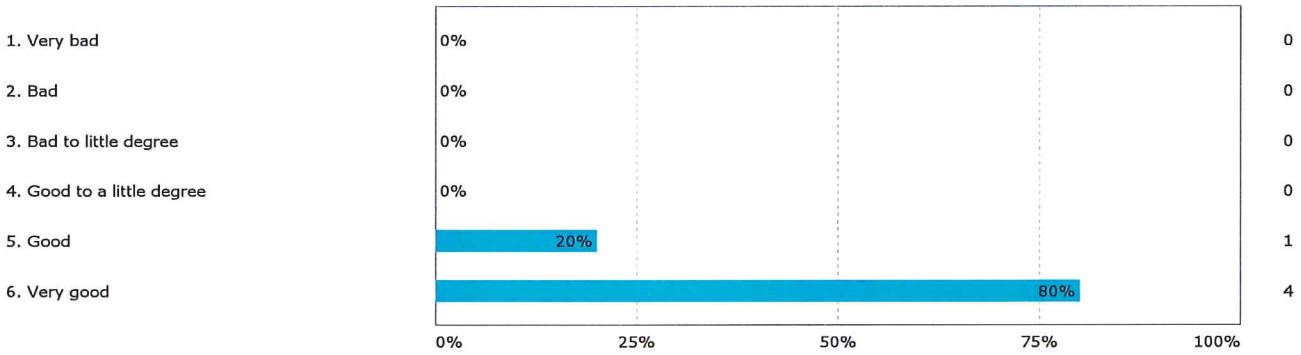
How many hours self-study have you used weekly?



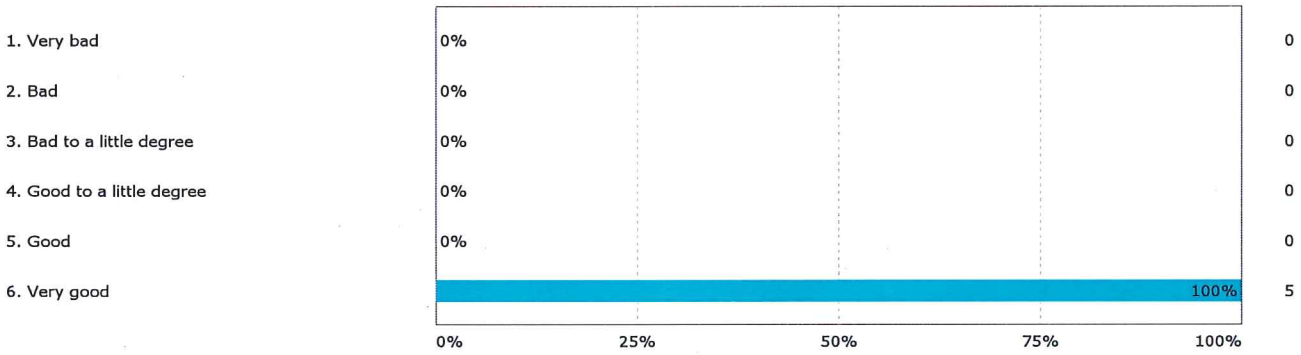
Do you think the knowledge you learned in this course will be relevant to your further studies / thesis / research activities?



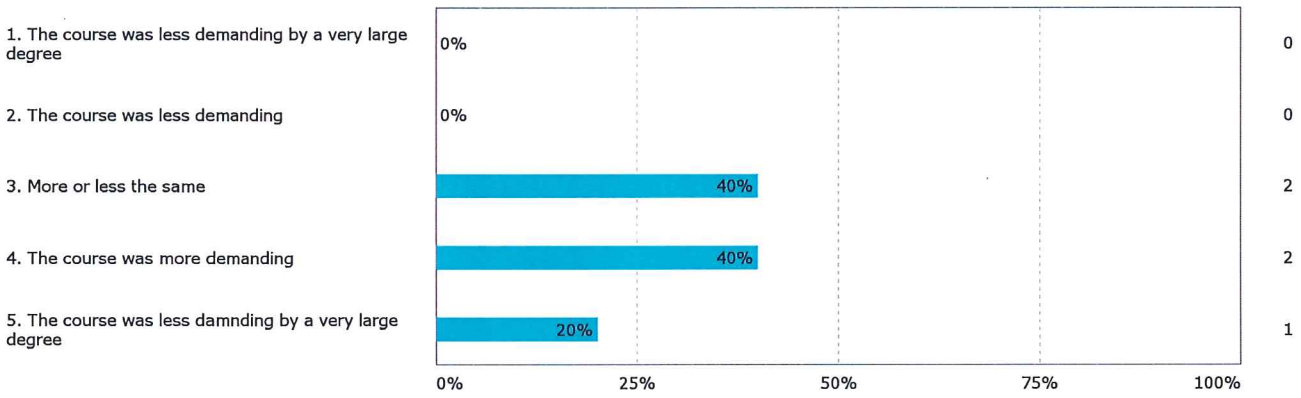
What do you think about the presentations of the lectures presented on MiSide? Range on a scale from 1 to 6, where 1 is very bad and 6 is very good



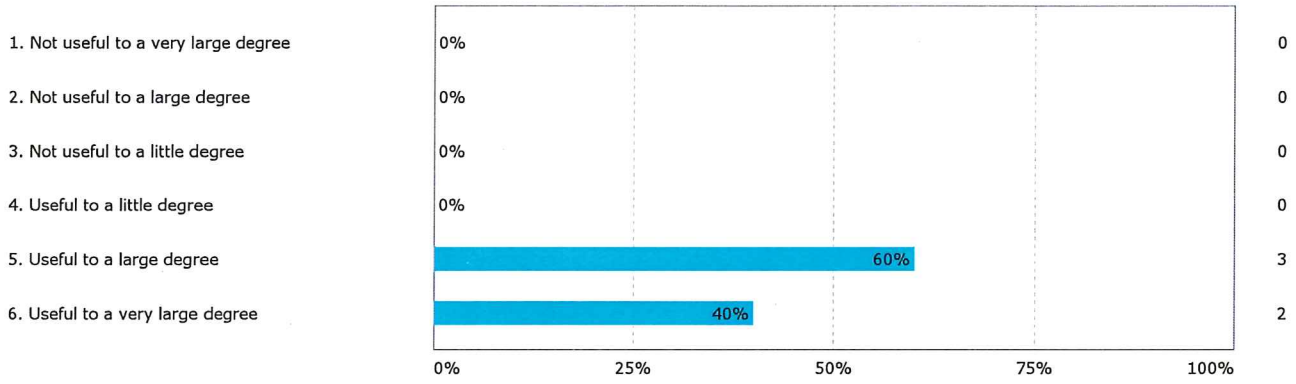
How has the contact with the teaching staff been? Range on a scale from 1 to 6, where 1 is very little contact/inacessible and 6 is very good contact/accecible)



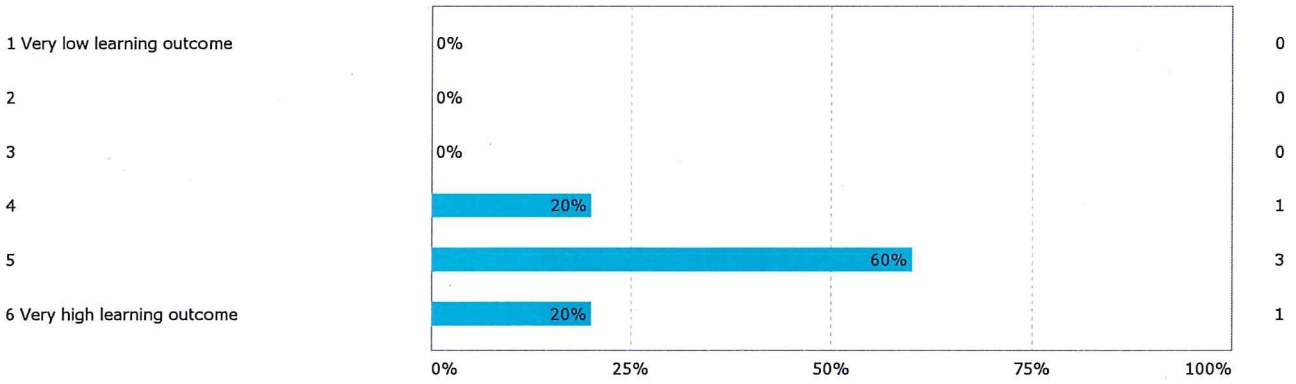
How do you rate the work load of this course compared to your other classes?



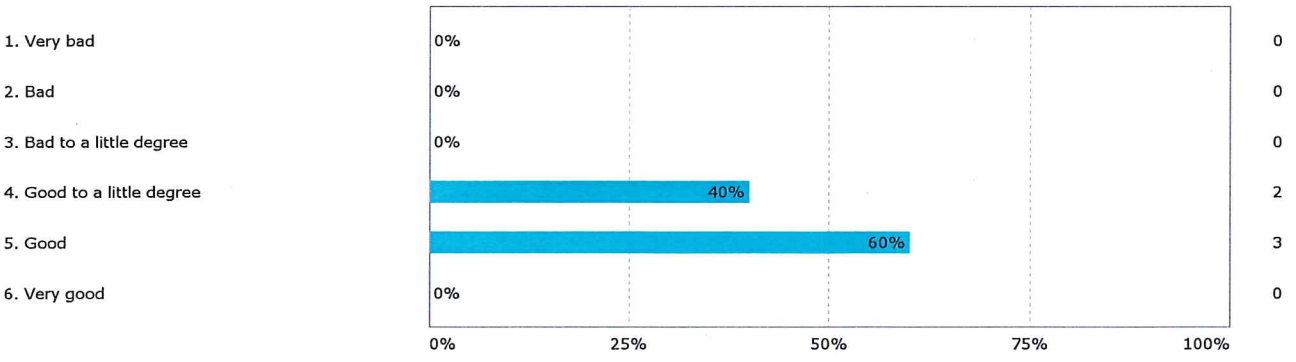
The lectures and particularly the exercises were to a certain degree meant to be interactive with intermittent questions being posed by the lecturer. Do you think this approach helped you in your learning progress? Rate on a scale from 1 to 6 (1=very little useful, 6=very useful)



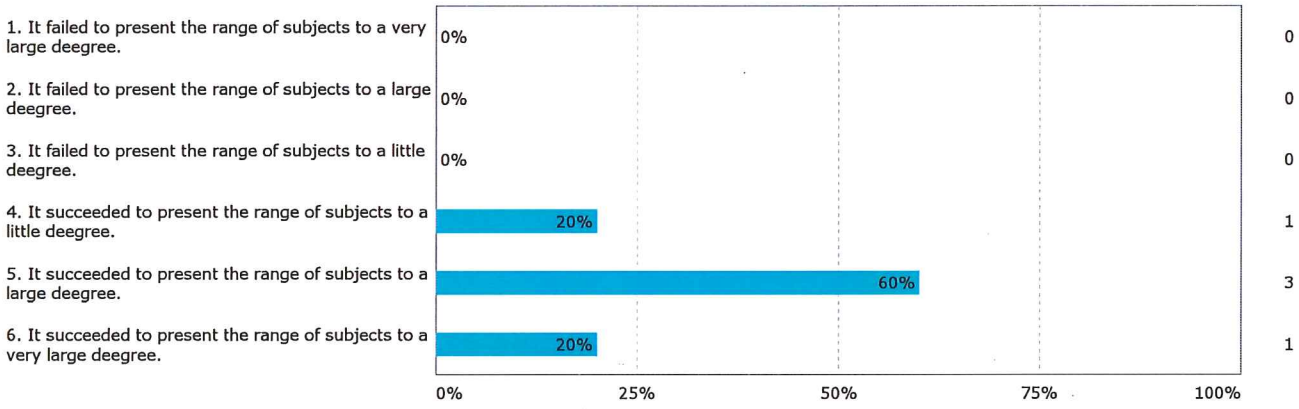
How do you rate the learning outcome from the lectures? Rate from 1 to 6, where 1 = very low learning outcome and 6 = very high learning outcome



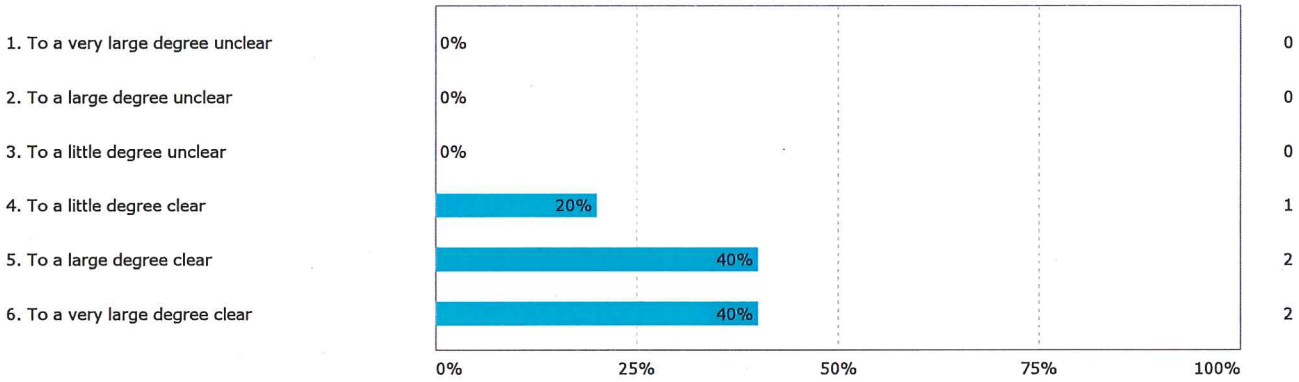
What is your opinion of the textbook "Organometallic Chemistry and Catalysis"? Range on scale from 1 to 6 (1=very bad, 6=very good)



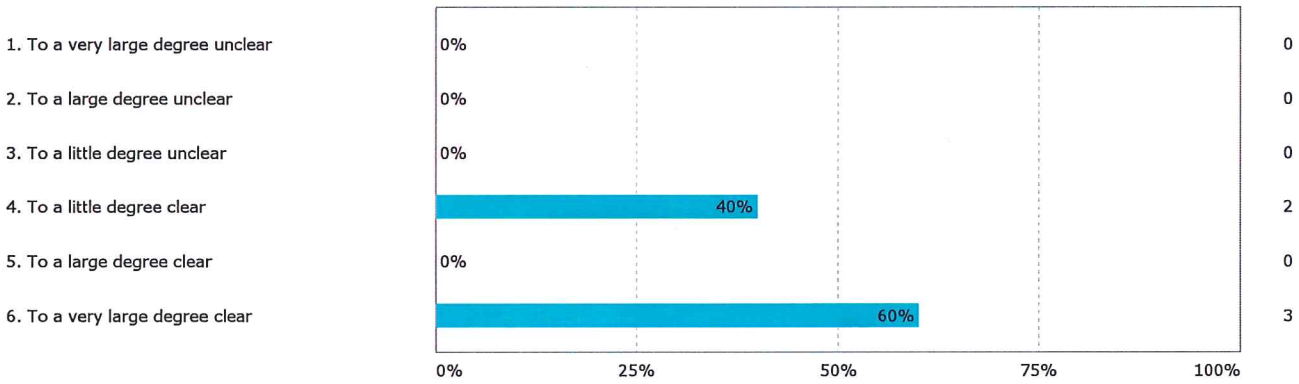
The course encompasses a wide range of subjects from fundamental organometallic chemistry to catalysis. How well do you think it managed to integrate this variety and present in a coherent manner (1 = very much failed, 6 = succeeded very much)



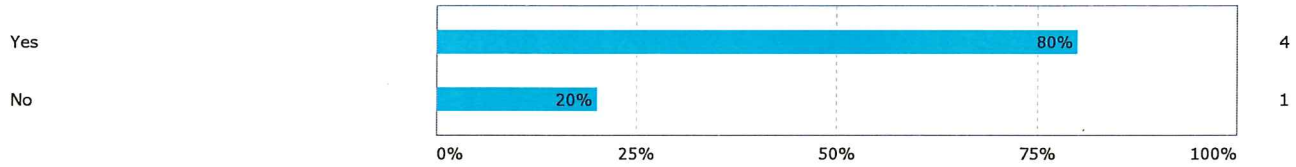
FUNDAMENTAL ORGANMETALLIC CHEMISTRY: How clear was the presentation during the lectures? Rate on a scale from 1 to 6



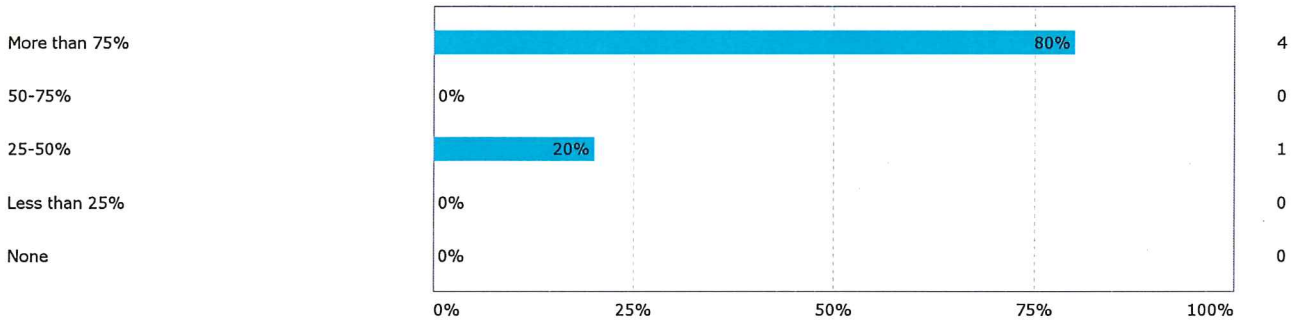
METAL-BOND PROPERTIES AND CATALYSIS: How clear was the presentation during the lectures? Rate on a scale from 1 to 6



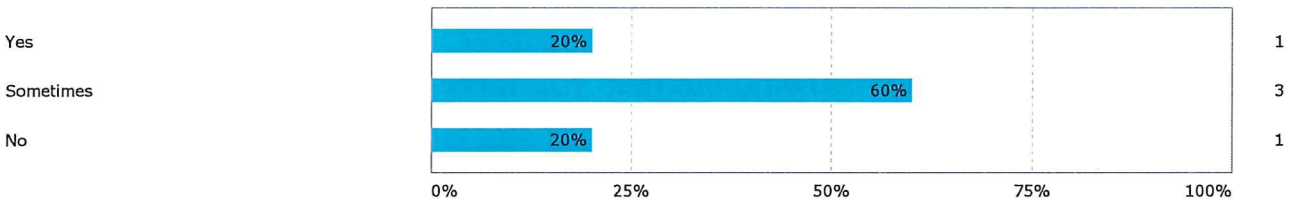
Did you feel your background knowledge was adequate to follow the content of this course?



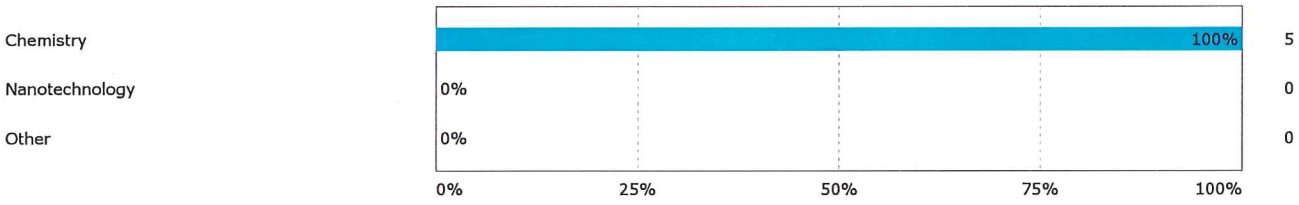
How many lectures have you attended?



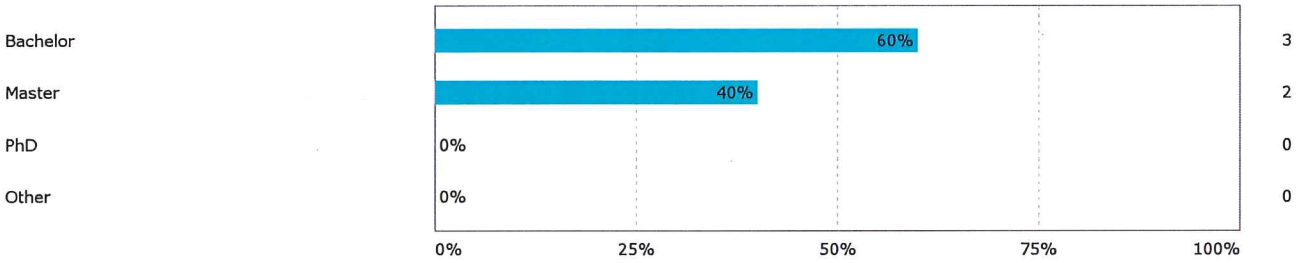
Did you prepare for the lectures in advance?



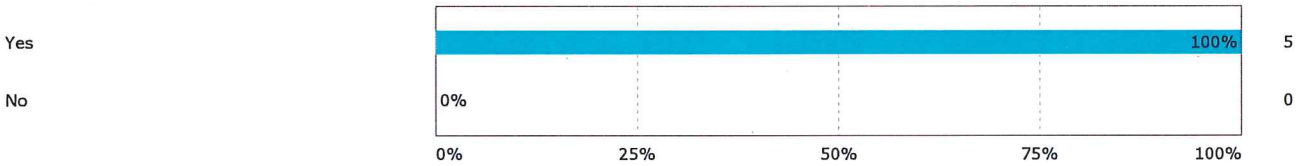
Are you studying towards a degree in:



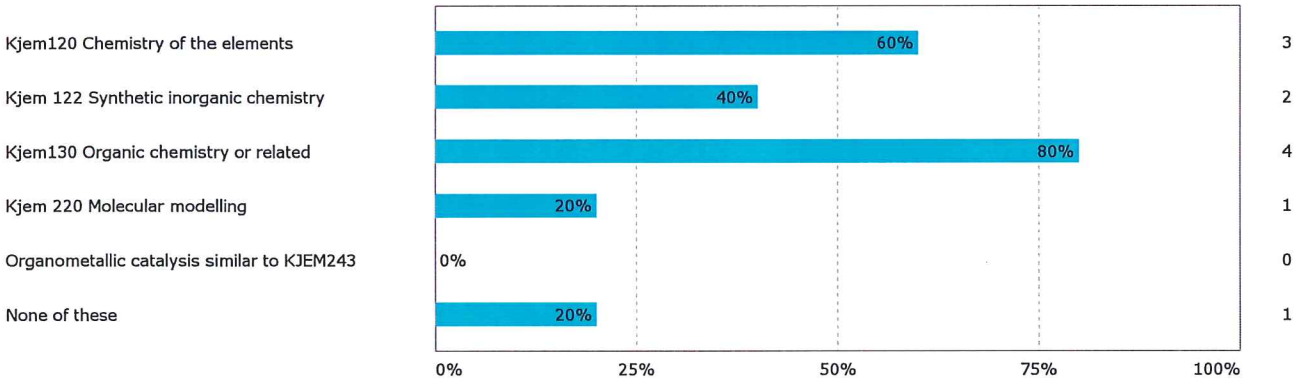
Please identify the study phase you are in:



Did the course meet your expectations?



Please mark which of the following courses you have attended earlier:



60% of students have a good opinion with the textbook ("Organometallic Chemistry and Catalysis") and 40% from good to a little degree.
100% of the students responded that there was very good contact with the lecturer.

Ev. underveistiltak

Faglærers samlede vurdering, inkl. forslag til forbedringstiltak

Based on the positive feedback from the students, there is no reason for significant changes in the short term for KJEM243. The content of the curriculum and the learning outcomes appear to be well-suited for the student's current studies, thesis and research activities, independently of their degree levels (mix of Bsc, Msc and Phd).