3-årig emneevaluering: GEOV355

Emne: Applied Seismology

Semester og år for gjennomført emneevaluering: Autumn 2021

Navn på emneansvarlig(e): Prof. Lars Ottemöller

Innhold:

1. **Beskriv og begrunn pedagogiske valg i emnet, reflektér over studentens læring som følge av disse valgene.**

   This is a 300 level class that is taken by MSc and PhD students from the department that have an earthquake related topic in their studies, and by exchange students that have a geophysics background. The purpose of the class is for the students to become familiar with essential topics within earthquake seismology, which they typically need as background in their studies.

   It is worth stating that student number varies between 2 and 10, and about half the students in the class can be exchange students. For that reason students can have quite different background, which needs to be considered in the teaching.

   As the class is relatively small, much of the teaching is done interactively. I usually give questions which students can answer, or they work in groups to work on a topic and then the results are presented to and discussed by the whole group. Material is presented with powerpoint slides, but additional explanation or demonstration is done on the blackboard. The teaching closely follows a standard text book that is also used in other courses at the department.

   The students are required to write a term paper on a selected topic. This means they get to practice writing skills, which are often quite limited at this stage. They also present the results and discuss together.

   In the past, students have often followed an additional class (GEOV359) which has computational and practical exercises. I realize that it is a limitation of GEOV355 if students don't follow the other class as they do not get problem solving exercises. However, this is planned to change from 2023.

Emneevalueringer skal også minst omfatte:

2. **Oppfølging av tidligere evalueringer**

   Due to the small student numbers, the feedback from students has been quite limited. Also there is usually no feedback from the exchange students. Generally I expect that the students would appreciate exercises as part of the course, which will be implemented in the future.

3. **Studentevaluering og andre evalueringer som er relevante for emnet**

    Have not been made.

4. **Erfaringer fra andre som bidrar i undervisningen på emnet, både studenter og ansatte**

    One Postdoc and one PhD were giving some of the lectures in 2020. However, there were only two students and the teaching online, so rather difficult to make suggestions.

5. **Strykprosenten på emnet**

    I can only remember one student that failed on the assignment due to plagiarism. Otherwise, students pass the class, and some may have dropped out before the exam.

    Rapport i Tableau: https://rapport-dv.uhad.no/#/views/SVP3Emnegjennomfring_1/Emnegjennomfringslister?:iid=2

6. **Eventuell fagfellevurdering**

    Not applicable

7. **Vurdering av samsvar mellom emnets læringsutbyttebeskrivelse og undervisnings-, lærings- og vurderingsformer**

    There has been a good match between these. Students need to get approval of the written term paper and write a 4 hour written exam to pass the class. The written exam for this class has worked well to evaluate the student's knowledge and to differentiate between the students.

8. **Vurdering av om framdrift og opplegg for emnet er i samsvar med de fastsatte målene for emne og program**

    As stated above, it is planned to adjust the course to have more student active learning, and specific exercises. The students will be using their programming skills and work on actual data. The plan will be prepared in 2022 in consultation with lecturers on other classes.

9. **I de tilfellene det er tilknyttet praksis eller arbeidsrelevans i emnet, skal det evalueres om ordningen fungerer tilfredsstillende.**

    Not applicable