

# Mindre utdanningsprosjekt ved NV

## Rapport og erfaringsdeling

**Prosjektnavn:** *Upgrade of Digital Education Forms in Course KJ2022*

*- Spectroscopic Methods in Organic Chemistry*

**Prosjektleder(e):** Nebojsa Simic

**Prosjektperiode:** Spring 2021

**Tildeling fra NV:** 21 600 NOK

### **Hva ble midlene brukt til?**

The need to switch to digital forms of education imposed certain challenges. This course includes demo-exercises as mandatory activities. However, they are difficult to carry out under current circumstances, because of the measures for restrictions of corona virus spreading. Therefore, the best solution in this situation is to make high quality videos, which would conveniently compensate for students physical attendance. The videos have to be also complemented with additional forms of digital interactive participation of students, aimed at checking the level of acquired knowledge from the videos. The video materials can be used also beyond the current emergency situation.

In order to achieve that, there have been hired 2 student assistants, who have:

- made 3 videos of average duration of 6 minutes each. It included recording, editing, audio mixing and subtitle setting;
- set up interactive checking of acquired knowledge. A BlackBoard tool for testing has been used. A pool of questions for each video has been made. It has been defined how many questions will be randomly selected for each students' trial and how many of them have to be answered correctly in order to pass the test. The number of trials per student has not been limited. The time for completion an individual test has been set.

**Hvordan gikk prosjektet?** (F.eks. erfaringer med bruk av digitale verktøy eller undervisningsmetoder, erfaringer som andre faglærere kunne lære av, osv.)

The project has been successfully carried out and the project goals have been achieved. Virtual visit to the spectroscopic instruments proved to be an efficient way for students to learn about how the instruments work and provided sufficient information for the next step, which is use of instruments. The applicability of the recorded material is not limited only to the current situation caused by corona pandemic, but can be extended to use in regular teaching conditions as well.