

## EMNERAPPORT – INSTITUTT FOR BIOMEDISIN

ANNUAL EVALUATION REPORT – DEPARTMENT OF BIOMEDICINE

Emnekode: <i>COURSE CODE:</i>	<b>BMED370</b>	Semester / år:	<b>Spring semester 2020</b>
Emnenavn: <i>COURSE NAME:</i>	<i>Computational methods for drug design</i>	SEMESTER / YEAR:	
Emneansvarlig: <i>COURSE COORDINATOR:</i>	<b>Ruth Brenk</b>	Godkjent:	Studieleder IBM 09.06.2020
Rapporteringsdato: <i>DATE OF REPORT:</i>	9.06.2020	APPROVED: (admin.)	

### INNLEDNING / INTRODUCTION:

Kort beskrivelse av emnet, inkl. studieprogramtilhørighet. Kommentarer om evt. oppfølging av tidligere evalueringer.

*SHORT COURSE DESCRIPTION, INCLUDING WHICH STUDENTS/CANDIDATES MAY ATTEND. COMMENTS TO CHANGES BASED ON PRIOR EVALUATIONS.*

*Computational methods for drug design* (5 ECTS) is a course that focuses on important aspects of biomolecular recognition which form the basis on which many computational methods are built. The principles of computational methods used for structure- and ligand-based drug design will be explained, and publicly accessible databases that are important for the field will be introduced. The students will gain hands-on experience with industrial standard modeling methods through practical exercises.

10 students were registered for the exam in the beginning of the semester. 3 students changed their mind later, giving 7 students registered short time before the examination date. It was a heterogeneous group:

- 2 Master students in Biomedical Sciences (MAMD-MEDBI),
- 1 visiting student (INTL-MED), and
- 1 Medical student (PRMEDISIN) at the Faculty of Medicine, as well as
- 1 Master student in Molecular Biology (MAMN-MOL), and
- 2 PhD candidates (PHDMN) at The Faculty of Mathematics and Natural Sciences.

For course descriptions, visit <http://uib.no/course/BMED370>

For evaluation reports, please visit <https://kvalitetsbasen.app.uib.no/popup.php?kode=BMED370>

### Changes due to the outbreak of global COVID-19 (coronavirus disease) spring semester 2020:

The teaching period for this course was planned from the 2<sup>nd</sup> until the 17<sup>th</sup> of March, with 5 lectures (2 hours each) and 7 practical exercises (2 hours each) in total. The spread of SARS-CoV-2 virus made Norway to go for “lockdown” in the afternoon the 12<sup>th</sup> March, this included closing the university’s campuses and facilities for teaching and examination. At that time, 3 lectures and 5 practical exercises had been held. For BMED370 the close down gave these results:

- All activities from 13<sup>th</sup> March was changed to digital lectures
- The practical exercises had to be done at home instead in the course room. The students could contact the instructors for help, which some of them have used intensively.

- Normally, the students are assigned a kinase as target for the homework. However, there was the wish from a few students to design inhibitors for a corona virus protease instead and to take part in a community challenge to help to fight the virus. Therefore, the homework as adopted to follow this wish and special instructions were given to enable to the students to take part in the challenge.
- The oral exam was moved to a digital platform

The students were informed about changes via the course page on Mitt UiB.

#### STATISTIKK / STATISTICS (admin.):

Antall vurderingsmeldte studenter: <i>NUMBER OF CANDIDATES REGISTERED FOR EXAMINATION:</i>		<b>7</b>	Antall studenter møtt til eksamen: <i>NUMBER OF CANDIDATES ATTENDED EXAMINATION:</i>		<b>7</b>
Karakter- skala <i>GRADING SCALE</i>	«Bestått/Ikke bestått» «PASS/FAIL»	<b>Bestått / PASS:</b>	<b>7</b>	<b>Ikkje bestått / FAIL:</b>	-

#### KOMMENTARER TIL KARAKTERFORDELINGEN / COMMENTS TO THE STATISTICS:

Emnerapporten utarbeides når sensuren etter ordinær eksamen i emnet er klar. For muntlige eksamener er da resultatfordelingen endelig, men for skriftlige eksamener kan endelig resultatfordeling avvike noe om evt. klagebehandling ikke er fullført.

*THIS REPORT IS PREPARED AFTER ORDINARY EXAMINATION. FOR ORAL EXAMS, THE RESULTS ARE FINAL, FOR WRITTEN EXAMS, THE FINAL GRADING DISTRIBUTION MAY DIFFER SLIGHTLY IF CANDIDATE COMPLAINTS/APPEALS HAVE NOT BEEN PROCESSED.*

All students have taken part in group work which they have presented and discussed for the exam.

#### SAMMENDRAG AV STUDENTENE SINE TILBAKEMELDINGER / SUMMARY OF EVALUATIONS GIVEN BY THE STUDENTS

Spørreundersøkelse via Mitt UiB, annen evaluering, tilbakemelding fra tillitsvalgte og/eller andre.

*COURSE EVALUATION ON MITT UIB, OTHER EVALUATIONS, RESPONSES FROM THE STUDENT REPRESENTATIVES AND/OR OTHERS.*

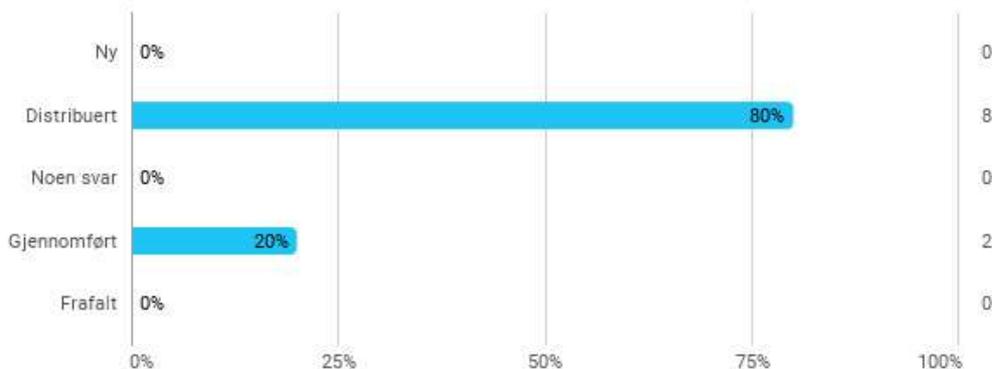
First semester using SurveyXact as the digital evaluation system for all of our courses. Some of the questions were Multiple Choice Questions (MCQ), while others opened up for the students to give their own opinion as written text.

The survey was set up as an anonym survey, and distributed to the students by use of their E mail addresses at UiB. The Survey was distributed the 8<sup>th</sup> of May to the 10 students registered for the exam. A reminder was sent the 11<sup>th</sup> May to those (9) that hadn't responded before.

The attendees were asked about the academic content, the organization and the educational level of the teaching, and asked to evaluate the total workload of the course. They were asked to give their responses about the lectures, what they appreciate – or found disappointing – about the course, and to evaluate the practical course. Finally came some questions regarding the exam and their learning outcomes.

When the survey closed 15<sup>th</sup> of May, responses from only 2 students was registered.

#### Samlet status



#### RESULTS:

It is difficult to draw any conclusions from the questionnaire as only two students took part and they don't always agree in their answers. But overall, they were positive about the course.

#### EMNEANSVARLIG SIN EVALUERING OG VURDERING / EVALUATION AND COMMENTS BY COURSE COORDINATOR:

Faglæreres vurderinger av emnet. *TEACHER COMMENTS.*

Eksempel: Kommentarer om praktisk gjennomføring, undervisnings- og vurderingsformer, evt. endringer underveis, studieinformasjon på nett og Mitt UiB, litteraturtilgang, samt lokaler og utstyr.

EXAMPLE: COMMENTS ABOUT PRACTICAL IMPLEMENTATION, TEACHING AND ASSESSMENT METHODS, IF NECESSARY. FUTURE CHANGES/CHANGES IN PROGRESS, STUDY INFORMATION ON THE INTERNET AND MITT UIB, LITERATURE ACCESS, LOCALES AND EQUIPMENT.

Obviously, there were some challenges this year due to the Corona situation. I believe that the situation was handled well given the circumstance. Some students even used the situation, to make the topic of their homework more relevant.

Another challenge is the diverse background of the students. Naturally, it is more difficult to hit the right level with such a diverse group. However, I believe that this also an opportunity which the students can use to learn from each other as there are many group work elements in the course.

#### MÅL FOR NESTE UNDERVISNINGSPERIODE – FORBEDRINGSTILTAK / PLANNED CHANGES FOR THE NEXT TEACHING PERIOD – HOW TO BE BETTER:

Based on student feedback, we will next year make clearer what the purpose of the different exercises is. Apart from this, no significant changes are planned for next year.