Meeting SAT Computer Science 18 November 2020

Minutes APPROVED

Present:

- Dan Witzner Hansen (HoP SWU)
- Marco Carbone (HoP CS and SDT)
- Therese Graversen (HoP DS)
- Patrick Bahr (HoP SD)
- Viktor Shamal Andersen (Student rep., DS) - Arrived later
- Daniele Galati (Student rep., DS) - Went earlier
- Paolo Tell (Guest from faculty)
- Sanne Louise Aaby-Diedrichsen (Academic supervisor)
- Mette Holm Smith (Prog Coor DS)
- Marc Kellaway (Prog Coor SD)
- Allette Bjørn Bundgaard (Prog Coor SWU/CS/SDT)
- Najmeh Abiri (Guest, Data Science faculty)

Absent:

- Jesper Bengtson (Guest from faculty)
- Theodor Christian Kier (Student rep., SWU)
- Cecilie Bech Rønsholt (Student rep., SD)

Minutes:

1. **Approval of agenda:** Therese chairs the meeting. Agenda approved. However, point 5 taken before point 4.
2. **Approval of minutes from meeting 1 October 2020: Appendix 2A.** Minutes approved.
3. **Information:** Nothing to report.
4. **Update from study programs:** /Students. Nothing to report.
5. **Presentation and feedback KDS structure and curriculum** /Njameh Abiri. Appendix 5A.

   Najmeh presents the outline of the programme:
   The programme has been revised since the first curriculum was approved two years ago.
   The program builds on the BSc program in Data Science from ITU, focusing on the following skills:
   1) Theory/Technical skills: Machine Learning, Statistical Analysis, Algorithm Design.
   2) Applied skills: Data Visualization, Mining and Exploring Data, Data Science in Production.
   3) Meta/Reflection/Communicative skills: Research Design, Communication Results, Ethics, Fairness.

   Electives: The list of electives contain selected electives from KCS, and new courses designed for the KDS program. On the third semester, students either take two 7,5 ECTS electives or one 15 ECTS elective.
   The program contain no formal specialisations, students specialise via their choice of electives.

Input from SAT:
- With no specialisation, how does students get depths in their skills?
Najmeh explains: It is the students´ own responsibility to choose courses that relates and thereby specialise.
Additionally, the manpower situation does not allow for specialisations in the program.

- Take care that the profile stay well-defined, for others to have the overview of the program, also for the benefit of the students and employers.

-Vertical progression is important to secure.

-There is no security course in the program - Do students learn enough security from the BSc in DS?
Mette explains: The Security course from CS can be taken, and the program contains a course in Ethics.
If security should be a mandatory course, what should be removed?

- Overall, the content of the program looks good, with the same subjects as on BSc in DS but in advanced form. Thus, the core of the program seems to be fine for a Data Science program.

-The 15 ECTS electives are they separate courses of 15 ECTS?
Najmeh explains: Yes, they are courses shared with CS.

6. **Change of BDS curriculum 5th semester from admission 2021** /Therese.

Therese Informs: With the Master program in Data Science, bachelor graduate in DS get right to admission (retskrav) to this master program. Thus, the former right to admission to KCS and KDIM discontinue.
Thus, the tracks on the bachelor program discontinue.

New structure on 5th semester:

- The old technical track course, Software Development and Software Engineering (7,5 ECTS) become mandatory
- Introduction of an elective 7,5 ECTS

The other 3 track courses are available as electives.
Even if the right to admission to DIM and CS discontinue, students might still want to go to CS and DIM.

Comments from SAT:
Marco: Students should still be able to qualify for admission to CS.
Experience with the this year´s CS students from DS shows that they miss functional programming, but in general, they get on fine and manage to catch up and settle in on the first semester.

In future, students from the bachelor program in DS that want to qualify for CS should use their two electives to take fixed courses.
Therese: Bachelors in DS are not comfortable with programming and testing.
Dan suggests: ITU sets up a bunch of 4-5 SWU-courses from which students should choose two to qualify for CS. (Functional Programming, Distributed Systems, Forretningsprocesser og organization among others)

Experience shows that DS bachelor students tend to want to take electives outside the CS-corner to get more variety.

7. **SAT CS Faculty representative in Study Board** /Marco.
   Marco has had the SAT CS faculty chair in Study Board for 6 years. He wants to step back from this position. The place must go to an officially elected SAT faculty member (Therese, Patrick, or Dan). It is important to fill the position to keep influence in Study Board.
   The workload is roughly the same as for SAT: one meeting per month of 1½ hours + some preparation.
   The discussions in Study Board are interesting as things are done differently across ITU.
   Marco Step back by 1 January 2021.

8. **DS bachelor´s qualifications for entry to the CS-program** /Marco.
   DS-bachelors´ legal right to admission to CS phase out with the new MSc in DS.
   Nevertheless, some DS-bachelors might want to apply to CS in future.
   What qualifications would they need to qualify?

   See points 6 – discussed there.

9. **AOB:**
   Moving SAT meetings to teams:
   SAT decided to keep the online meetings on zoom.
   However agenda, minutes etc. already moved to Teams.