Faculty of Electrical Engineering, Mathematics and Computer Science

Date   December 20th, 2016
Minutes of the 116th meeting of the OLC-IT

Present: Hartvelt (minutes secretary), Havinga, Heerlien (10:48), Heijenk, Heijnen,
              Molenkamp, Kortstra, Van Grinsven

1. Opening and determining agenda

The meeting is opened at 10:47 A.M.
Hiemstra and Huisman have announced they will not be able to attend the meeting.
Boschma is in class and will not be attending either. Heerlien enters at 10:48 A.M.
There are no additions or changes to the agenda

2. Announcements by programme director

Heijenk mentions:
- The open days for the CS and IS&T masters have just been held. The number of attendees is similar to last year, with 46 in 2016 as opposed to 44 in 2015. This open day is targeted at students from universities of applied sciences and non-IT bachelors, but the majority of the intake for our master studies comes from IT bachelors and foreign students. This makes the format of the open day difficult.
- In January the general master open days will take place. Because of the different in the target group between this day and the recent open day, the programmes cannot be joined together.
- The bachelor open days were a great succes, with 284 attendees as opposed to 234 last year.
- He recently visited NEDAP to sign the collaboration contract. Last year 4 NEDAP trainees were educated by the University of Twente, but there wasn't a contract in place yet. The students partake in parts of course modules.They are students with a technical background, are very motivated and ask the right questions. This year 7 students partake in the traineeship.
- Maarten Korsten has recently visited the University of Science and Technology of China during his visit to the NPU, which is further discussed in agenda point 7. At the USTC he discussed a similar exchange program to the one in place with the NPU, where fourth year bachelor students come to the University of Twente to finish their bachelor and achieve their MSc degree.
- Heijenk expects to go to China in March to sign the contract with the NPU, and is planning to also visit the USTC to further discuss this and possibly sign a contract.

3. Mail
1. Tuition and Examination Regulations process

The process of the formation of the Tuition and Examination regulations was pretty chaotic the last time, and this should be more streamlined the next time. This e-mail is purely informational, the role of the OLC's and Faculty Councils in this process are still unclear.

2. Keuzegids Computer Science

Our scores in the Elsevier have risen last year, but they have fallen in the keuzegids, which is a little odd. The reason for the scoring in the keuzegids is not always clear, but it is based on the results of the National Student Enquiry.
A long discussion about the way the scores are formed and the implications of the score in the various guides ensues. The main take-aways are as follows:
- The various choosing guides are definitely used a lot, but the scores do not always reflect the truth. Heijenk hopes the prospective students are able to put the scores in perspective.

- Students tend to fill in the NSE when they are unsatisfied, which has a large influence on the scores. To ensure a truthful representation of the study, as many students as possible should fill in the NSE.
- Other universities motivate or even force students to fill in the questionnaire, sometimes even to fill it in positively. This is not something we should do, but we should definitely motivate them to fill it in.
- There is a meeting in January to gather feedback on the study programme, we could organise something similar for the master studies.
- **@Heerlien** is going to discuss with the officer of educational affairs of Inter-*Actief* how to motivate the students to fill in the NSE.

4. Minutes and Actions of the 115th OLC-IT meeting d.d. December 20th, 2016

Heijenk mentions the name change of the OLC was not meant seriously. The name change to OLC-CS does not completely cover IS&T, according to Heijenk. Having disagrees. In the end it is conclude the name will stay OLC-IT, with the remark that IT stands for Information Technology, not Informatica & Telematica.

Actions

179:    Overview of evaluation results: Will be discussed at point 5 of this meeting
234:    Information about the examination of Quantum Cryptography: There are not only the assignments, but also a real test.
236:    Check whether the two different versions of Network Security are necessary: The versions in Delft and Enschede are vastly different, so they should both stay.
238:    Availability of internship reports: Ongoing
243:    Integration of Mathematics in Module 5: Ongoing, can be started now the module is finished.
244:    Discuss with Module Board how Mathematics can be better integrated: Action is done, but integration has not been achieved yet. However the ball is rolling and Heijenk will monitor the progress.
249:    Course description of Network Security: Has been updated, action done.
254:    Actions of the secretary: Is not present so is not discussed.
255:    Language of the meeting and minutes: The language of the meeting is dependent on the present people, but the minutes should always be in English, as well as the agenda.
256:    Status of the secretary's action points: This action can be removed.
257:    E-mail the Requirements Engineering Processes lecturer with the advice of the OLC: Done.
258:    Inquire about possible interest in the OLC-IT: Heijenk mentions he thinks he should not have influence on the composition of the OLC, as the OLC is supposed to advise Heijenk. The candidate is already too busy, so is not a suitable candidate. Another candidate is mentioned as a possible candidate, who would be good for the international composition of the OLC. It is also mentioned that Ties Bolding is the newest student member of the OLC-IT, but he could not be present at this meeting yet.
        Subsequently, a discussion is held about the possible combination of the OLC-IT and the OLC of Creative Technology, who are currently developing a master's programme.
        The conclusion about the action is that **@Havinga** is going to discuss with Dirk from the OLC of Creative technology about a possible combination. If that is not possible he will contact the aforementioned International candidate to join the OLC-IT.

The minutes of the 115th OLC-IT meeting d.d. December 20th, 2016 are approved without changes.

5. Bachelor evaluation

The results of the Student Experience Questionnaire are supplemented by a short summary of panel discussions and a brief response by lecturers. A long discussion ensues about the results of the evaluation. The main points are as follows:

- All the scores are relatively stable. 2015/2016 was the first year the entire bachelor programme was taught within the new education model. Therefore some scores may seem a little biased, as there is only one year of results from some modules.
- On the whole, choice modules are evaluated better. This is probably due to the fact that students actively chose to do them and are bound to be more motivated and interested. There is some mention of modules being less challenging and a worse connection to previous modules, but as the differences are so small we should not attach great importance to these differences.
- Module 2.2 has been evaluated very badly, with a 3.5/10 score.
- Smart Spaces hasn't been taught this year, as there was not a lot of enthusiasm for it (only 2 people registered). Apparently there was some interest from exchange students though. If there is enthusiasm for it next year, we should definitely teach the module again.
- 2015 on the whole has been evaluated a little bit worse than 2014, but better than 2013. This could be due to a more critical group of students. However, the differences are so small we should not worry about them.
- Only about a quarter of the students fill in the enquiries. A discussion is held about how to fix this problem. Heijenk mentions people get tired of having to fill in an enquiry for everything they do. A solution is proposed where the module coordinator of the next module tries to motivate the students to fill in the enquiry about the previous module during the first lecture of the new quartile, where many students are present. This does not cost a lot of effort, so it is definitely worth it. **@Heijnen** will discuss this with the module coordinators and remind them when the time comes.

6. Premaster / bridge minor to the CS and IS&T master programmes

It was always possible to get into the Computer Science master through a 30EC deficiency from a lot of bachelors with a good technical and mathematical background. Due to the new educational model, it is difficult to find a good combination of modules to provide a suitable background for the Computer Science Master. There are several options:

- Not allowing students from those studies
- Changing the requirement from 30EC to 45EC
- Having some bachelor modules in the homologation part
- Using partial modules to fill 30EC

The first option is quickly dismissed, as is the third option, because you would force students to do master courses without the proper prerequisite knowledge. Partial modules aren't an option because it is an impossible puzzle. If you change the requirement to 45EC, an option would be to have students do 30EC as a minor and 15EC as a premaster. From the CS modules, 2, 3, 5 and 7 are the most relevant. You could have students choose three from this set, for instance. **@Heijenk** is going to think about this problem and make a plan.

7. Collaboration with NPU

Maarten Korsten has recently been to China to discuss the collaboration with NPU. The contract has been signed and there will be exchange students coming to Twente next year. Their education will be structured as follows:

- 3 years: First three years of the 4-year Chinese bachelor programme
- 1 year: First year of the 2-year master programme in Twente
- 1 year: Second year of the 2-year master programma in Twente

After the first exchange year, the Chinese students will attain their bachelor diploma from the NPU, after which they conclude the master programme in Twente and attain a diploma from the UT.

This setup does mean there is no room for a traineeship. As the NPU requires the students to finish their bachelor programme with a project, the students will probably follow the Academic Research Project course within the homologation part of the first year of the master programme. There will be an option for students from Twente to go on exchange in China. The bachelor students can follow the exchange minor and follow courses in China for half a year. Master students can do an external assignment or follow master courses at the NPU for half a year.

8. Master-rationalisation

There has not been as much progress as desired with the rationalisation of the master programme. Starting next year there will be fewer specialisations and fewer courses. The specialisations of the CS master are:

- Data Science & Technology
- Software Technology
- Cyber Security

These are complemented by the IS&T master programme. Heijenk's proposal is as follows:

- 60EC framework consisting of 5 "core" courses and 7 electives
- 20EC exchange / traineeship / electives
- 40EC graduation process

Data Science & Technology and Software Technology do not need 5 core courses, but could make do with 3 or 4.

Subsequently, there is a discussion about the amount of courses available. Heijenk's conclusion is that some courses should be scrapped as there are way too many courses with few students present. If Heijenk allows all requests for the new programme it will end up looking a lot like the current programme. **@Heijenk** is going to sketch a more restrictive scenario and see which courses he ends up with.

Researchers should have the option to give a research-themed course, which are courses that don't cost the UT a lot of resources. These courses lead to a very cluttered course landscape though. The option of a general research themed course is discussed, as well as allowing every lecturer one "hobby" course. This discussion is cut short by the announcement that the financial structure of the faculty is going to change soon, so these ideas are not relevant at the moment.

9. Proposal of new course

Modelling and Verification of Protocols for Wireless Networks is proposed to be a new, one-time course given by a guest lecturer who is in Twente on exchange. It was originally meant to be a 3EC mini-course with an optional 2EC project. These have been merged into one course to make the course a full 5EC one, which is more attractive to students. As the guest lecturer has not been approved as examiner by the examination board, Ansgar Fehnker will be the examiner and ensure the quality of the course. The course will start in January, as the guest lecturer is only present for 4 weeks. The deadline for the project would then be at the end of the third quartile. The potential pain points for the course are the deadline of the project, as students should not spend too long finishing the course, and the resits of the exam. Fehnker can probably arrange the resits. **@Heijenk** is going to talk with Fehnker about this.

Havinga is unsure whether the workload is enough as there are only 32 contact hours. Heijenk reassures the rest however that a typical course has even fewer contact hours, and mentions that 32 contact hours would be realistic for this course.

There is a brief discussion about potential overlap with the Mobile & Wireless Networking course, but even though there are a lot of interfaces between the two courses, there is not a lot of overlap.

10. New committee member

This point has already been discussed previously, so is skipped in the meeting.

11. Student flowers

There is the proposal of giving Rolf van Kleef a bouquet of flowers as a thank you for professionally and efficiently solving a couple of problems within a course. Everyone thinks this is fine, so it is agreed he should get the flowers.

12. Any other business

There is none.

13. Questions and conclusion

There are none.

The meeting is concluded at 12:21 PM.

List of actions of the OLC-IT d.d. December 20th, 2016

#	Meeting	Action	Person	Deadline
238	May 2016	Discuss with the faculty about the storage and availability of internship reports	Programme director	June 2016
243	June 2016	Discuss the integration of mathematics in module 5	Programme director	July 2016
254	October 2016	Talk with Jolanda van de Laar about the actions of the secretary	Chairman	November 2016
259	December 2016	Discuss the possible combination of OLC's with Dirk. If this is not possible, contact Anna Sperotto to join the OLC-IT	Chairman	January 2017
260	December 2016	Discuss with the officer of educational affairs of Inter-*Actief* how to motivate students to fill in the NSE	Heerlien	January 2017
261	December 2016	Discuss with the module coordinators about reminding students to fill in the NSE on the first day of the new quartile	Heijnen	January 2017
262	December 2016	Sketch a more restrictive scenario for the amount of courses in the Master programme	Programme director	January 2017
263	December 2016	Discuss with Fehnker about the resits of the new one-time course	Programme director	January 2017
264	December 2016	Find a solution for the premaster/bridge minor problem	Programme director	January 2017