

MINUTES BIT-OC MEETING

Date: Tuesday January 28, 2020
Location: RA 3411
Time: 12:40 – 14:00

Present: Luís Ferreira Pires (chairman), Maria Iacob (programme director), Marloes van Grinsven (programme coordinator MSc), Joyce van Baaren (programme coordinator BSc), Marten van Sinderen, Adina Aldea, Nikki Zandbergen, Bernard Verheijen, Thomas Hogema, Laurence Arnold (via video connection), Danique Lummen (education Inter-Actief)

Absent: Jos van Hillegersberg, Niels de Groot (minutes secretary)

1. Opening and Agenda

Luís opens the meeting at 12:45.

2. Announcements

a. Bachelor & Master EER

We need to finish the Master and Bachelor EER in May and June, respectively, so they should be discussed the month before. Thus, we will discuss the Master EER in April and the Bachelor EER in May.

b. Scheduling BITOC

Jos has requested to consider rescheduling the BITOC meetings as they often coincide with BMS board meeting. Luís proposes to discuss this immediately, since otherwise Jos will almost never be available. Maria proposes to keep the same timeframe but change the day of the week. Maria will figure out whether Thursdays will be fine from now on.

AP Maria will mail Mirande to reschedule BITOC meetings to Thursday.

c. TOM2.0

Final phase should be finished soon, not only the spreadsheet, which is to be discussed today, but also the migration rules for each and every module should be up for discussion. We have to carefully look at this for students wanting to take their courses to the next year.

d. Double degree Munster

Maria says she is quite advanced in this and formal rules are being set up. All the paperwork is being drafted and should be approved at some point.

e. Split module 2

Maria has discussed with Arend Rensink (programme director TCS) and they came to the conclusion that it would be best for both programmes to split in module 2. The BIT variant will have three module

components (Math, Design, Programming). A new staff member, Wallace Ugulino, will be in charge of the module and will be assisted by Luís for the first year. Of course, because of this turning point, Luís and Wallace may look into the module content to see if any changes might be necessary.

3. Minutes and Action Points

- **Minutes 03-12-2019**

Page 1: Luís asks for the status of the committee training. Nikki comments that not everyone has filled in the Doodle as some people did not have their schedules yet.

Page 3: Nikki asks about the use of AppInventor. It states it measures programming skills, but she believes this was not the case. Maria answers that it is mostly used so that they can actually deliver a full product. It is a convenient way to have a concrete implementation. Luís asks whether Maria talked to Fons about external examiners (from businesses). Maria says the module is under heavy redesign, but she has not discussed this with Fons yet.

- **78: Student assistant pool:**

Laurence has made progress since last meeting and believes they can start setting it up shortly now.

- **108: BIT not being able to follow Math teaching minor:**

Joyce has done quite a bit of research together with Gerard Jeurnink. Apparently, we are the programme with the least amount of Math. We miss Calculus B and Discrete Mathematics. For this minor, some graph theory and combinatorics are needed. There is a large list of topics that they cover. Maria is trying to argue that these topics come back indirectly in several modules of the BIT programme. It is ongoing, but Maria hopes she will be able to gain access to this minor for BIT.

- **114: Send the ROMP-OER for TOM2.0:**

Maria says the ROMP-OER is sent out quite late, so we will have to wait for it a little longer. She expects it around March/April.

4. Test plan for all modules

Point 4 and point 7 of the agenda are the same. The test plan is the TOM 2.0 overview. The most recent version was sent to the BITOC by Joyce. Luís asks if people had time to take a look at it. Adina comes up with an issue for module 3: the IEM side is changing since Methodology will be taken out and the number of ECs for their Skills is changing. Would it be possible to include Ethics in this module?

Maria says that, if they do not do any research methodology anymore, she would not really mind including Ethics. Luís recommends to discuss this with Maria since she makes the proposal. Adina says she would like the opinion of the students and is also curious whether Ethics could have a place in other parts of the programme as part of REST. 10EC of REST education is now in module 11, which Maria deems to be the right place. She would probably like to keep that concentrated in module 11 so students understand it is important.

AP Maria will talk to Adina about Ethics in module 3 (but she can't promise anything)

Maria says she discussed every single bit of module 1 and 3 with IEM but apparently, they have now made some changes again. Adina comments that the problem is that if the modules are not similar enough students will not be able to switch as easily. Nikki asks for how many students this is the case and Adina says about 5-10 students per year switch from BIT to IEM in module 3. Maria and Adina will discuss this part later.

Maria explains some changes: module 2 will be changed, it will be three parts, as opposed to the current schema. Module 8 has been split in four parts, Fons has done some redesigning but it's not really that different from the schema. Module 6 is still very unclear; we don't know what exactly will happen there. The module coordinator is currently busy with this year's addition and he will look into next year after the module had finished. Then there is a minor, Smart Spaces, which will probably be discontinued. Danique adds that the TCS programme has communicated to students that module 6 will have one final grade for the full module. Maria thinks this is weird and will discuss with Arend Rensink. Based on this, the BITOC will not give an advice yet and will wait for further information about module 6.

A final addition from Maria: the BSA will be 45EC, no exceptions or compensations necessary. 45 of the 60 EC for a positive BSA.

5. Proposal M-BIT curriculum 2020-2021

The document is an overview of the courses to be included in the Master programme. It gives an overview of the core and the specializations. The Design Science and Foundations courses will be squeezed into one Research Methodology course. Enterprise Security is being worked on by Abishta, Andreas Peter and Florian Hahn. The rest is the same as in the initial proposal, except that E-Strategizing was moved to the IT Management & Enterprise Architecture specialization. Maria explains that there are six courses to choose from, and students need to choose four of them. This means students can partially tailor their own programme.

Both specializations contain a course called Smart Industry. It will be similar to the Data Science course in the sense that it will contain all theory in two weeks and there will be some optional Smart Industry topics. There is one teacher/coordinator who will assign projects. Each student chooses a theme, does a project on that theme and there is one test. It will hopefully be nicely balanced between the business side and the technical side. Adina has a concern about the Data Science track, which has a lot of courses in quartile one. The Smart Industry course would also take place in quartile one, so that would cause some conflicts. Adina asks if some courses could be moved, but this is not possible according to Marloes since we depend on other programmes we work together with. Maria comments the easiest solution would be to put the Smart Industry track in quartile 3 or maybe 4. Nikki asks about the possibility to have the course take place twice in separate quartiles. Maria answers that this is only possible if it is so successful that they have enough students to do so. Marloes adds that this discussion could be opened for Basic Machine Learning, as that is growing steadily, but this discussion is not continued.

Once it is agreed that this is the structure of the Master, Maria will map the courses to the programme learning goals to make sure all of them are covered. Luís recommends doing this already, but since a lot of information is still unknown this is not possible. Maria closes by saying that before the OER for 2020-2021 is created it would be good to hear whether this structure is agreed upon. The main discussion left right now concerns offering Basic Machine Learning twice, which is for later.

6. Double degree with Münster

Marloes sent an overview of the structure of this new double degree. Maria is in the process of creating motivation forms and detailed plans. For the double degree, the programme learning goals should be mapped to the courses too. Requirements from both sides need to be taken into account. Maria explains that the grey parts in the document are UT courses, the green ones are from Münster. There are two options: start here or start there. Maria believes it would make sense for our students to start here. A mapping was made of courses that cover about the same topics or have related learning outcomes. Based on these mappings we have come up with courses that do not overlap so it will be coherent. The result is an extra track in the BIT programme which adds a very strong Data Analytics flavour. This is what is clear right now, so this schema is more or less final, and the next step is, as mentioned, mapping the learning goals. One important thing to mention is that the core of the BIT programme is covered in the programme.

Thomas asks about the number of ECs. It seems there are 4 more ECs than usual. The reason to do this is because they work with 6 EC courses. However, one does get two diplomas for the programme so Maria believes it should be worth it. Adina comments it is also an extra month, so the ECs cover that. About the tuition: students will pay one year here and one year in Germany due to the different costs between the two countries. Maria is also looking into travelling options for Münster. It is probable that students who go to study there will get free transportation. Thomas asks why Advanced Machine Learning is also included. It is explained that there was room for electives, and it was discussed that it should be slightly different from what we offer, so Münster wanted a stronger Data Science profile than our current specialization. Maria adds that we can still negotiate these things and asks what Thomas would prefer. Thomas does not have a concrete idea at this point. Nonetheless, Marloes will take a look at the options.

AP Marloes will take a look at alternative options for the AML course in the double degree with Münster.

Marten says joint supervision will be done, but what does that mean? Maria explains that each student chooses a main supervisor. Every student has two supervisors, but one is the main one. Marten says he is more concerned about the division between EEMCS and BMS. Maria says that this won't be a big problem, but they can make it work. Normally, we want to have a good mixture, which is why we have one supervisor from EEMCS and supervisor from BMS. If we want to stick to that, a student would have three supervisors total. Maria will look into it, but she does not think this should be a big problem, but this also largely depends on the topic. Marloes agrees they will address the problem in future talks with Münster.

Adina has a question concerning whether students have to start in Münster if they want to finish their thesis here. Marloes says this is also one of the points still under discussion. Most of the time, students will pick the easier option of starting where they don't want to finish. Maria concludes that this is still very much a work in progress and more information is to come.

7. TOM 2.0 new overview B-BIT

This agenda point is an accidental copy of agenda point 4. Please see the minutes of point 4 above.

8. Evaluation M-Courses

Three course evaluations have been sent to the BITOC: Foundations, Multi-Agent Systems and E-Strategizing. All courses are evaluated with an appreciation above six, and E-Strategizing is the rising star with a grade of >7. However, Maria does still get comments that the academic level is not up to par, so there is work to do, but it is starting to look a lot better. The other two courses, starting with Foundations, were evaluated a little worse than previous years, but not necessarily bad. Maria has no explanation why, since there are no really negative comments. Adina did talk to some students and found out that students who like more open and creative courses do not like Foundations. Although the course is very useful, they might not appreciate it because it is not perceived as a course that triggers their creativity.

Maria also wonders about the lower grade for Multi-Agent Systems, but Laurence points to the low sample size, which does explain it a bit. Looking to the answers to the questions, Luis says the grades for teacher's insight into students keeping up with the content were relatively low, as well as the learning goals and assessment criteria which was also lower.

Laurence asks why there are no comments attached to the evaluations. Maria does not know, but she does still receive them. Perhaps it is useful for next meetings to ask Mirande to make sure the comments are attached.

9. BITOC annual report 2018-2019

Luís wrote this some time ago. If anyone still has comments, he would like to hear them. Thomas has one remark on page 108. It mentions that “The ‘Implementation of IT in Organizations’ course was added to the ‘IT Management & Enterprise Architecture’ specialisation core.” Was this done last year, or will it be implemented next year? As far as Thomas knows it is now not in the specialization. Marloes answers it will indeed be next year, it did not happen last year. Luís took this from the minutes, so some things were probably correct at the time, but became outdated later. Thomas says it could be changed to state that changes were *approved* instead of *made*, so it is clearer that approval was given but so far it has not been implemented yet.

10.AOB

Maria has a comment about the EEMCS language policy. EEMCS has decided to give up the official ‘EEMCS language policy’ and deem the UT language policy sufficient.

11.Closure

Luís closes the meeting at 13:56.

The next BIT-OC meeting will take place on February 25th (might be changed to a Thursday).

12.Action Points list

The finalised actions points are in the style 'strikethrough'. Since multiple action points were found in duplicate in the minutes, two action points are merged to one action point list for clarity.

Nr.	Date	Subject	Leader	Status/deadline
78.	2018-08-28	Ask Wessel and/or Adam about help with getting to the BIT students for the student assistant job pool through Inter-Actief	Bernard, Laurence	Ongoing
108.	2019-09-24	Ask for the reasoning behind BIT not being allowed to follow a Math teaching minor.	Maria	Ongoing.
114.	2019-12-03	Send the ROMP-OER for TOM 2.0 to the BITOC.	Maria	Ongoing.
115.	2019-12-03	Add the future of BIT module 2 to the agenda for next meeting.	Luís	Done.
116.	2020-01-28	Mail Mirande to reschedule BITOC meetings to Thursday.	Maria	New action point.
117.	2020-01-28	Talk to Adina about Ethics in module	Maria	New action point.
118.	2020-01-28	Take a look at alternative options for the AML course in the double degree with Münster.	Marloes	New action point.