

UNIVERSITY OF TWENTE.

FACULTY ELECTRICAL ENGINEERING, MATHEMATICS AND COMPUTER SCIENCE

DATE: 27 FEB 2020

OURREF: EWI20/BOZ/9318/HM

Draft minutes
30th PC-SC (OLC-SC)-meeting
Thursday February 27th 2020, 12:30 – 14:00 hr.

5 *Present:* Sarthak Misra (chairman), Ronald Aarts, Francesco Nex, Maarten Korsten (Master coordinator), Bhanu Teja Chidura (Student), Vignesh Balaji (Student), Lars Essenstam (minutes)
Absent: Jan Willem Polderman (Program Director)

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1. Opening

Aarts opens the meeting at 12:30

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Aarts asks if Polderman is still working as program director.
Kosten mentions he is not and says he can now be seen as interim program director.

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The student members mentions they do not have access to all files yet. Hugo Masselink will make sure this happens.

2. Minutes 29th meeting 07 January 2020

02 9117 Concept Minutes 29th PC-SC-meeting 07-01-2020

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There are no remarks on the minutes.

In response to the action items:

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8 This is continuing
77 Pending Aarts got some input last time, however it takes a lot of work so it is not finished.
87 Pending, Korsten mentions they will discuss the list of electives for next year and send this to on the examination board
95 pending
96 completed, we will look at this today.

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3. Advices/correspondence

Korsten and Aarts have some remarks about the new master Robotics and the future of Systems & Control. There will be a modified S&C program in academic year 20/21. Nex asks if it is not easier to rename the program S&C to the program of robotics. Korsten says you would also need to change the goals of S&C then which is a lot harder.

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Korsten just sent all document to the student members before last meeting.

4. Announcements

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There are no announcements

5. Osiris Course Information Form-Robot Design

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Misra gives a short introduction, the new course if mostly mechanical design and design principles. He thinks this is currently lacking in the biomedical design, he thinks it would complement courses in RAM about design. It will show how to analyse robotic systems and their actuator systems.

55 Aarts asks if it is a broad course, Misra confirms this. Aarts wonders if there is any overlap with the other courses about design, but he thinks there is little overlap so it does not matter. Misra thinks the same.

Korsten thinks it might be a good addition for students doing the RaM track.

60 Aarts asks if it will start this year or next year, Misra thinks it is hard to completely set it up this year. Korsten says it is up to him if he can give it this year. Students doing the course this year will only graduate next year, so it can be included in the TER. Misra asks what the process is to do it this year. Korsten responds that if we accept it here, he will make sure it is on Osiris.

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6. Third student-member PC S&C

Aarts suggest sending a promotional message to all student to find a third member. Korsten says we can post a message on the canvas page for all S&C students. The new student members will send Korsten an email with some text that Korsten can post on canvas.

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AP Student members: create a promotional announcement for a new student member and send it to Maarten Korsten that he can post it on canvas

7. Electives S&C

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Aarts suggest we discuss the red marked subjects, which are special cases.

Korsten has a remark about Embedded Systems Laboratory, as he still needs to be discuss with Jan Broenink if it is a suitable subject for S&C students.

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Aarts mentions that the list is used for the students to select more easily, and make sure there is a nice list of accepted subjects without the need to discuss it each time with the examination board.

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Korsten mentions he has added some machine learning courses, Basic Machine Learning and Advanced Machine Learning. Aarts has another subject which is not in the list, which is called machine learning engineering which is also a machine learning subject.

Aarts has some more subjects which are indicated as possible for systems & control.

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Aarts mentions we do not need to make a definitive decision now, we can do it next time with the rest of the information

95 Chidura has another course that could be interesting, Control for (B)ME. Aarts asked the professor of this subject, he has said it is only for mechanical engineering students and not interesting for systems & control students. Student member Chidura mentions is a prerequisite for another subject, advanced motion control. Aarts mentions the teacher thinks there are other subjects in S&C there are better for S&C students. Chidura says another prerequisite for this subject, digital control has cancelled so there is now way for systems & control to do the prerequisite.

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AP Aarts will asks the teacher of Control for (B)ME, Wouter if it possible for systems & control to take the course.

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Aarts will asks if nonlinear control is also a good prerequisite for this. Misra thinks this course is also a good course.

TER

110 Nex says on page 7 in the TER there is a reference to the course list, that it could be changed during the year. Aarts mentions that last year when the TER was discussed there was still a lot of discussion about new courses. Therefore, it was useful to be able to change course list a little throughout the year.

115 Aarts says last year there was some discussion about increasing the core programs to 25EC, where the extra 5EC has to be a subject related to control. If we want to do this there has to be

8. A.O.B.

120 Aarts asks what order the students would like to discuss the mail they sent to Aarts and Korsten.

Student member mentions there are some things wrong in the course list on the website, one subject, advanced motion control, is given in quartile 2B while it is listed differently on the website.

125 There is one subject which is apparently mandatory to graduate from RaM, Systems Engineering, however it is not mentioned on the website. Korsten says this was not communicated from RaM to the programme management, therefore RaM has no right to demand this. It is not a S&C rule. Korsten mentions this is an Electrical Engineering rule, not a S&C rule. Korsten does mention you should discuss your course list with your programme mentor, however as the subject is quite early some people choose to do another as the course list does not have to be discussed immediately in quartile 1A.

130 Korsten will discuss this with Gijs Krijnen, and the student members will send their mailing conversation with Gijs to the PC.

AP Korsten: Discuss systems engineering being enforced on RaM students with Gijs Krijnen.

AP Student members: Send their mailing conversation with Gijs Krijnen to the PC.

135 Misra asks if the student members can send the mistakes on the website of the quartile numbers on the courses to him and Korsten, so he can change it.

140 Korsten asks what is the status of the student members regarding their study, some switched to biomechanics and some took systems engineering.

145 Balaji asks if it is possible to record lectures, Misra says it is possible, but not for every subject. Other student member says it is not necessary, as it would only be nice if both the teacher and the students want it. Misra says there is a possibility by the ITC to record it, but they have some requirements like the powerpoint slides have to be beforehand. Aarts says they want a teacher to use Powerpoint, and not every student wants this.

150 There is a question about the evaluation of evaluation. Aarts mentions there is an evaluation system, with a small form that can be sent to the students. So for example after the lecture a teacher can send a small form which students can be filled and the teacher can immediately improve the subjects. This could be a good idea, so Aarts will send it to all members. Balaji thinks this could improve the feedback loop during a course, as normally the evaluation is only done afterwards.

155 Another point by the students: In quartile 1B there is opportunity to do 2 subjects of 5EC, however there are only 3 electives available.

160 2B has 7 electives, while there is only place for 1 subject after the core subjects. This could be distributed evenly so more students can choose subjects they like.

Korsten mentions he already has 4 more electives that could be added in this quartile. Aarts mentions most courses are done in cooperation with other programmes, so it is not easy. However, if there are still problems after the new course list it is not possible

9. Questions before closing the meeting

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The next meeting is Tuesday the 7th of April. It will be in the ITC building. Nex will make sure a room is available.

10. Closure

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The meeting is closed at 13:50

Action items

8	Consult De Willigen about literature assignment, involve EE in this	10/4/2013	M-coordinator
77	Write an annual report for 2017-2018	07/05/2019	Chairman
87	Respond to Hakvoort on their request regarding the courses and ask if this separate list of electives is what the examination board had in mind → Included in 86	04/07/2019	Korsten
95	Send an email to the steering group suggesting there should be a clear voting procedure.	07/01/2020	Aarts
97	create a promotional announcement for a new student member and send it to Maarten Korsten that he can post it on canvas	27/02/2020	Student members
98	Ask the teacher of Control for (B)ME, Wouter if it possible for systems & control to take the course.	27/02/2020	Aarts
99	Discuss systems engineering being enforced on RaM students with Gijs Krijnen.	27/02/2020	Korsten
100	Send their mailing conversation with Gijs Krijnen to the PC.	27/02/2020	Student members

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Completed action items

96	Look at the TER of last year for things you would like to see changed.	07/01/2020	Everyone
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