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## Minutes 41<sup>st</sup> meeting PC-S&C Monday 4 April 2022, 09:00 – 10:00

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Present: Ronald Aarts (chairman), Sarthak Misra, Francesco Nex, Maarten Korsten (programme director, PD), Alejandro Lopez Tellez, and Marissa Jonker (minutes maker)

10 Absent with notice: Jorien Berendsen (programme coordinator, PC), Vignesh Balaji Vijayan (without notice)

### 1. Opening

The chairman opens the meeting at 9:02

### 2. Minutes meeting 40 on February 2022

15 Page 2, line 58: Remove "D" from "3D".

With this correction the minutes are approved.

#### Action points:

20 103, 112: discuss at item 5

114: discuss at item 4

116: pending

117, 118, 122: discuss at item 7

119: done

120: done

25 121: pending

123: no longer needed

### 3. Announcements, incoming and outgoing mail

30 **A. From previous meeting: Mail from PD on 'Rights of consultation and consent of PC and FC'**

This overview will be helpful when we discuss the new EER for next year. If there is a disagreement between programme management and programme council then we can check the list whether the PC of the faculty council (FC) have the right of consent. Almost all topics have a right of consent either from the PC or FC.

35 **B. Mail from BOB about EEMCS mental health day**

Already took place on March 20<sup>th</sup>, so no further action relevant anymore.

### 4. Course evaluation reports Q1 and Q2

From Q1:

40 • 191157750 Engineering Acoustics (M-ME course)

No SC student joined the survey. We should look at courses which are relevant to the SC programme, but it's hard to judge how SC students think about a course if there is no feedback from SC students in the evaluation. Nevertheless we should still evaluate a course if it is deemed relevant for the SC programme.

45 It is pointed out that this evaluation is from the QAC of Mechanical Engineering which apparently uses a different format compared to the QAC of EEMCS. This is not considered to be a problem.

For Q2 the PC-ME and PC-IDE have been contacted about the following courses:

- 50
- 201500009 Electric Vehicle System Design (M-IDE course)
  - 201900037 Flexible Multibody Dynamics (M-ME course)
  - 201900120 Learning and adaptive control (M-ME course)

Evaluations from these courses are not available yet, although the PC-ME has indicated they want to process such request more systematically. To be checked next meeting. Action point 114 remains open.

55 PD shared six additional course evaluations:

- 60
- 201300004 Robotics for Medical Applications: 0 SC students.
  - 201600071 Machine learning II: 0 SC students.
  - 201800177 Deep Learning – From Theory to Practice: 0 SC students.
  - 191210920 Optimal estimation: 2 SC students. Overall grade 8.
  - 191211090 Real time software: 0 SC students. Overall grade 6.
  - 191561620 Optimal control (M-AM course): 1 SC student. Overall grade 8.

From a quick scan it appears there is no need for immediate action. As the files were shared shortly before the meeting, it is proposed that the PC members check the evaluations after the meeting. If any action is necessary, this will be discussed next meeting.

### 65 **5. Annual reports PC-SC**

#### A. **2019-2020**

There were no comments on the draft. The template includes a section 5 about self-evaluation. It's hard to write a self-evaluation 2 years later, so this part is left out.

#### B. **2020-2021**

70 There were also no comments on the draft. For this report a self-evaluation makes more sense. It is included e.g. referring to the increased attention now given to the course evaluations, see previous agenda item.

Both reports are approved and will be published on the web site. Action points 103, 112 are completed.

### 75 **6. Course programme 2022-2023**

The PD shared two documents with the PC about changes in the SC course programme that are expected due to the start of the new MSc Robotics. These documents are discussed in this meeting and provide also input for the discussion of the EER in the next meetings.

#### 80 - **File 06B: Courses S&C 2022-2023.**

The file presents a table with an overview of the compulsory courses, additional control courses and electives. Information from the MSc Robotics team about these courses has been processed. The rightmost column indicates whether there are no changes, a cross "x" in the column, or a suggested change.

85 Most relevant for the SC programme are changes to the compulsory courses or additional control courses. It should be checked how this could affect the SC programme requirements. This concerns in particular the courses *Control System Design for Mechatronics* and *System Identification and Parameter Estimation* in the top part of the table.

90 The bottom part of the table indicates that several elective courses will be changed or discontinued. In general new courses will contain roughly the same topics as the old courses. Students who still need to complete old courses should discuss their programme with the programme mentor. This applies e.g. to cases where an old course has to be replaced by a new course.

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- **File 06A: Programme S&C 2022-2023.**

100 This documents is a letter from PD to programme committee that outlines the expected changes of the SC programme and suggested actions to be taken. The main problem is how to cope with courses that will be changed, while still giving students a valid SC programme.

105 The first two courses are the compulsory or core courses which are the most important ones to consider: *CSDfM* and *SIPE*. There needs to be an explicit check on the content of both courses as soon as this information is known.

110 A general transition arrangement applies: All students who attended courses in this year that will not exist anymore in the next year, have right of at least one resit exam. Proposal: check for each individual course what kind of arrangement is possible if students fail this resit next year.

Nex: Are we supposed to give both SC and Robotics courses next year? Chairman: Only one course will be given for both programmes.

115 The teacher should realize that in case a new course replaces an existing course, there should be (at least) one "old" exam next year for students who took the course this year. This should be clearly communicated to the teachers!

120 The quarters of some courses will change. 2B seems to be a popular quarter for courses, so it might become overloaded for S&C students.

Lopez Tellez: Modelling & Simulation is a tough course in quartile 2B, so keep in mind the study load of the other courses.

125 Regarding the CBL and ELSE aspects, it is noted that some of the robotics courses are also given to other programmes which may not have a link to CBL and/or ELSE. Teachers have to be aware of that. E.g. if 0.5 EC of a course is reserved for CBL for the robotics students, this part has to be arranged somehow differently for the non-robotics students.

130 Chairman wonders about *Machine Learning in Engineering*, that is listed indicating the current course will be discontinued. He didn't get information indicating such and will check the plans of the teacher.

→ Action 124.

## 7. Third PC-SC student member

135 Chairman will contact Vijayan and inform about his status.  
→ Action 125.

Lopez Tellez: made a message for Canvas with Berendsen. There was supposed to be an announcement, but it *hasn't been posted yet*. So there are no new candidates yet.

140 In the previous meeting we discussed one candidate who might be still be available until the summer. We can check if he's still available to join the two meetings we expect until then. However, if we post the announcement now, we will probably have a new member after next meeting and who can be a PC member for a longer period.

Lopez Tellez will check with Berendsen about the status of such announcement.

145 → Action 126, then also replacing the old action points 117, 118, 122.

It is not clear in which way the PC-SC will be involved in the MSc Robotics. The staff members of the PC-SC have been invited for the PC Robotics. What about student members? In the first quarter of next year it will be hard to have a PC Robotics with robotics students. We can propose to have one PC for both programs where more Robotics students will become involved once that programme has actually started. See also next item.

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## 8. Next meetings (setting meeting dates)

155 Nex: Would it be an idea to have a meeting with the management of the MSc Robotics, Jan Broenink and Heidi Muijzer-Witteveen, to assure we're fully aligned and to avoid double work?

Chairman will invite them for a meeting and discuss how they would like to join.

→ Action 127.

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### Next meetings:

42<sup>nd</sup> meeting: Thursday 12 May, 13:00-14:30. Topic: EER A-part

43<sup>rd</sup> meeting: Thursday 2 June, 14:30. Topic: EER B-part

## 9. Any other business/Questions at the end of the meeting

165 No other business/questions.

## 10. Closure

10:01

# UNIVERSITEIT TWENTE.

FACULTEIT ELEKTROTECHNIEK WISKUNDE & INFORMATICA

DATE: 12 MAY 2022

OUR REF: EEMCS2022/BOZ/10819

## 170 Action points

| <b>Nr</b>  | <b>Description</b>  | <b>From meeting</b>      | <b>Who</b>   |
|------------|---|--------------------------|--------------|
| <b>114</b> | Contact PC-ME and PC-IDE about the availability of course evaluations               | 17/01/2022<br>04/04/2022 | Chairman     |
| <b>116</b> | Check if there are ITC courses that need to be checked for evaluation.              | 17/01/2022               | Nex          |
| <b>121</b> | Send EEMCS signal value table to chairman.  | 28/02/2022               | P-director   |
| <b>124</b> | Check if Machine Learning in Engineering will be discontinued                       | 04/04/2022               | Chairman     |
| <b>125</b> | Contact Vijayan   | 04/04/2022               | Chairman     |
| <b>126</b> | Check with Berendsen about the status of an announcement for a third student member | 04/04/2022               | Lopez Tellez |
| <b>127</b> | Invite Jan Broenink and Heidi Muijzer-Witteveen for a meeting                       | 04/04/2022               | Chairman     |