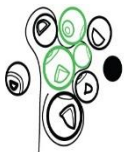


Minutes of the online meeting of the Programme Committee ME/VU



Date : **Wednesday May 12, 2021**

Time : **08:45 – 10:30 hour**

Room : **Home office**

Present:

Chairman:

PC-members:

M.B. de Rooij

B.R. van Eijk (absent), H. Steenstra (absent), I.T. van der Veen, M. Shahi (absent), A.H. Vuuregge, S. Wilcox (absent), M.E. Toxopeus (absent), E.E.G. Hekman, J. van Asselt (absent), M.I. Abdul Rasheed, E.T.A van der Weide, T. Tankink, D. de Jong, P.C. Roos, C.L.B. Geuß, M.T. Khan

Permanent guests:

Evaluation committee

Minute maker:

Guests

Absent:

E.M. Gommer, A.F. Heutink, G.G.M. Stoffels.

S. de Groot

<mentioned above>

1. Opening + Introduction

The chairman opens the online meeting at 8:46.

2. Announcements

A.H. Vuuregge uploaded the files of the program committee meeting she organized for the new members. This meeting will also be temporarily last meeting because of pregnancy, she will be back in January. Therefore, the VU is looking for a replacement for the mean time.

3. Minutes last meeting March 31, 2021 / Minutes FC (annex)

Page 1: no remarks

Page 2: no remarks

Page 3: no remarks

Page 4: no remarks

Page 5: no remarks

Page 6: no remarks

Action points:

145: can be removed.

4. **Updates committee actuality of the programme**

B.R. van Eijk is not present, so he cannot give an update.

E.M. Gommer thinks that there were no new actions taken in this sub-committee.

AC: B.R. van Eijk plan new meeting for the committee actuality.

5. **Updates committee Bachelor assignment**

The comments that were given by the program committee were taken into account and corrected in the questionnaire. The analysis is yet to be done. M.I. Abdul Rasheed thinks the questions can be handed out to the students this year. Hopefully there will be feedback in the beginning of next year.

E.M. Gommer says she made some changes based on the discussion in the program committee. Multiple meetings are held with the supervisors before the start of the Bachelor assignment and before the assessment. The deadlines are more strict, which means especially giving the students the idea that the deadlines are really important. E.M. Gommer says she has also been more strict on external assignments outside the university.

AC: MI Abdul Rasheed present/give feedback of the questionnaire.

6. **EER MSc ME 2021-2022**

The focus lies on the changes compared to last year, which are marked in the document. Also ask M.E. Toxopeus (who is absent) to give feedback on these changes.

The program committee will go through the EER page by page.

Page 5: Some terms are added in the beginning.

Page 8: A sentence is added about admission requirements to make it more clear.

Page 12: 4.5 point 5: The part about EC's needs to be rephrased. Maybe add that students have to let the courses approve before they go abroad instead after they come back.

Page 13: Main change is part 4.8 point 4. M.B. de Rooij suggests to add who will appoint the internship supervisor in the department.

Point 7: The assessment from the company will be weighing for 1/3 of the grade, this should be added to the EER. For this, an assessment form is made for the company.

Part 4.9: The EER for all programs within ET are standardized, so therefore the working days have changed. There should be added that for exceptional cases, this term can be exceeded, which has to be communicated to the student.

Page 14: Fulltime dedication is 40 hours a week. Change the word dedication because it can be a confusing word. Can change it to 'fulltime work' for example.

Page 15: 5.1.3: 'A member should be from another chair.' M.B. de Rooij is wondering if this can also be from another university. E.M. Gommer says it is allowed to add in the chair from another university. Discuss this and add a point of the possibilities to do this. 5.1.3 point 3: from second part, add that they do not have any voting rights (they only have an observing role).

5.3: This is the second bigger change of the EER. Point e: add during the whole master.

Page 20: Add that the grade can be a half grade.

AC: MB de Rooij send a formal letter that the EER is accepted by the program committee.

7. **Restructuring premaster ME (Genie)**

Current situation:

The premaster program consists of 30 EC in half a year. After finishing this, the student is accepted to the master program. During master, the student still has to do some courses from the bachelor that are considered to be a part of the pre-master (for which they get an exception for the internship). There is no legal base to let the students follow these 'extra' courses during the master. Students are also not really motivated to follow them. But with only the 30 EC, the student will not have enough (pre)knowledge for the master.

Delft has premaster of one year and more EC's. In Eindhoven 30 EC spread over one year, and student can already do some master courses.

A discussion is held to come up with different ideas/solutions to this situation.

It is suggested to make the same regulations with the other universities from 4TU, and maybe even with other universities that offer ME.

It is also discussed if only the 30 EC is a possibility. Some courses, as Matlab and Engineering thermodynamics can maybe be removed from the premaster, where some of the 'extra' courses can then be added to the premaster program. But the math courses have to stay in the premaster program.

Maybe someone from a HBO ME program can be contacted (for example Mark Rijkeboer from Saxion) to get information about the courses in the HBO program. Then there will need to be checked if the HBO programs differ at different locations in the Netherlands.

Another option is to make the premaster longer, for example a year consisting of 50 EC. And then the master is shorter. The only problem is that HBO cannot do it as a minor, because that is 30 EC.

8. **Grading period in the master (Lisa)**

Already discussed in the point EER.

9. **Matlab or Python for education**

There are requests from students and teaching staff to make a change from using Matlab to Python. It is open source and companies often use Python instead of Matlab. Applied physics is already using Python.

E.M. Gommer wants to get more insight in what kind of problems can occur when making this switch.

A.F. Heutink made an inventory about which courses use Matlab in the Master program. Still some courses should be added and the bachelor courses should be included as well.

E.E.G. Hekman discussed this in the department. Simulink is included in Matlab and not in Python which can cause problems for a few courses. But colleagues are open to change.

M.B. de Rooij mentioned for his course some files will need to be rewritten in Python and he should learn to do that. This will be the case for more courses.
It can be good to also invest/organize how to switch for the teachers as well.

Overall it is mentioned that Python is more general, applicable in more cases and open source. Matlab is easier to learn but has some restrictions.

It is easier for students to learn Matlab than Python. Learning Python can be a problem in the bachelor, because students are already struggling with learning Matlab.

But learning Matlab when already knowing Python can be easier than the other way around.

A.H. Vuuregge says someone from VU who is teaching Matlab is also in favor of using Python.

E.T.A. van der Weide got mixed reactions from colleagues. People doing more numerical work are in favor of python, others are either neutral or in favor of Matlab. The main reason for Matlab is relative ease. The learning curve for Python is steeper than Matlab. Python is for free, therefore more used in companies. In general, the program skills themselves are more important than the actual coding language.

10. **Any other business**

E.M. Gommer: for the next academic year, there are two possible ways: education on 1.5 meter or back to normal 2.0, where the contact time will be cut with 20%, which will be online. This online teaching is wanted because the student numbers are expected to increase and there is not enough space on campus.

This will be a topic of discussion in the next meeting.

T. Tankink says Eindhoven is switching to Dutch because they had too many students.

11. **Subjects next meeting**

The EER of the bachelor program.

Scheduling for new academic year (online/offline).

12. **Closure**

The chairman closes the online meeting at 10:34.

UNIVERSITY OF TWENTE.

MECHANICAL ENGINEERING (ME/VU)

	Action: (Agenda point)	Introduced on:	To be completed on:	To be completed by:
1	Let the evaluation committee discuss the course evaluations (in response to PC-377)	01-11-2001		
146	Plan new meeting for the actuality committee.	12-05-2021		B.R. van Eijk
147	Present feedback of the questionnaire of bachelor assignment	12-05-2021		M.I. Abdul Rasheed
148	Send letter to approve the EER	12-05-2021		M. B. de Rooij