

UNIVERSITEIT TWENTE.

To: Prof.dr. A.A. Stoorvogel, Programme Director AM
From: Programme Committee AM (OLC-TW)

FACULTY OF ELECTRICAL ENGINEERING, MATHEMATICS AND COMPUTER SCIENCE

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PC-AM@utwente.nl	OUR REFERENCE	CC:
	EWI22/BOZ/10846/MvdK	--

SUBJECT
Advice Bachelor EER Applied Mathematics 2022-2023

Dear Programme Director,

In our additional meeting on 22 June 22, we discussed the latest version of the proposed new bachelor curriculum. We have the following specific remarks.

For the new course Systems Theory, we stress that the focus should be on linear systems. The description mentions the Jordan normal form, but we suggest removing it here and including it in the Differential Equations course in module 4. Also, we concluded there is room for a project of about 1 EC. The PC prefers a small project over assignments. We acknowledge several assignments exist, but we suggest these be part of the regular teaching by complementing tutorials. As this is about 1 EC, a weight of 20% rather than 30% in the final grade seems fairer.

We remark that Modelling 3 in Module 4 is not finished yet. It should contain a part on Presentation skills, and it is not yet clear how the modelling assignments or the project will be taught. The first part should be incorporated, while the latter can be prepared with the lecturers.

For Numerical Mathematics, we would like to see the weights of the assignments and the exam.

For the course Introduction to PDE, the description does not mention the weak formulation while the goals do. We suggest including the weak formulation and the proper function spaces in the course description. We note that a new course design for the current Intro to PDE course would be very helpful in anticipating these changes. The first version we discussed earlier this year may serve as a basis but requires some work still. We suggest discussing these changes in the fall, but by November at the latest.

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Finally, we mention that Reflection 2 could benefit from a revision. For instance, reviewing a seminal paper is a good activity, but the supervisor has more authority on the maths of that topic. Involving the daily supervisor of the student for the bachelor project much more will lead to a better design of this preparatory phase.

While we believe this version has matured substantially, the above remarks should be incorporated into the new AM bachelor curriculum. As for the bachelor EER, we are satisfied with the replies for the double degree programmes. In summarizing, we give a negative advice unless the above parts are addressed, which we can still deal with before July.

Best regards,



Hil Meijer
Chair PC-AM