

# UNIVERSITEIT TWENTE.

To: Prof.dr. A.A. Stoorvogel, Programme Director AM  
Prof.dr.ir. A. Rensink, Vice-dean of education EEMCS

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/10799/MvdK	--

SUBJECT  
Vision (Master) Education with Challenge-Based Learning

Dear Programme Director Applied Mathematics and vice-dean of education of EEMCS,

In our meeting on January 18, the programme committee Applied Mathematics has discussed the documents regarding Challenge-Based Learning (CBL). We believe teaching with CBL cannot be part of our regular bachelor or master programme.

On the one hand, the students find the idea of Challenge-Based Learning charming and see the added value of doing that in their study programme. On the other hand, they see they would miss essential knowledge or skills if it replaces courses in the regular bachelor or master programme. Also, the students would find the interdisciplinary aspect very important for CBL. If organized by Applied Mathematics, this would lead to too small student numbers and ineffective project groups.

On a different level, we acknowledge that for a CBL activity, students choose their learning goals. The current Applied Mathematics programme leaves no room to add a CBL-component as we would then have to abandon particular Programme Intended Learning Outcomes lowering the final quality. We have considered CBL as an addition or replacement of the internship in the master. Although a student performs the internship strictly outside the Applied Mathematics department, there still is a link to mathematics through the supervisor and the report. This aspect could not be guaranteed with CBL.

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To conclude, the programme committee Applied Mathematics opposes the idea of CBL being part of our regular bachelor or master programme in any way. Our considerations suggest that such a CBL activity may be organized at a different level, e.g. faculty or university-wide. In that case, a CBL activity may be part of a student's minor in the bachelor.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Hil Meijer', written in a cursive style.

Hil Meijer  
Chair PC-AM