

Blended learning mathematics

Experiences redesign 1st year math programme Ingrid Vos





Target innovation project

Innovate the math education to all TU Delft 1st year students in the academic year 2016/2017



Pilot projects in 2015/2016

Every quarter of the academic year 1 pilot:



Course design



Active

Feedback



Context

Conceptual understanding

Blended learning cycle

Self study student





Demo





Lectures (campus)

MyMathLab

Improvements

Problem	Improvement
Students don't watch pre-lecture	Video really replaces part of the content.
	Teachers were again instructed not to repeat
	pre-lecture content.
	Better connection between pre-lecture and
	lecture, by startin <mark>g with quiz a</mark> bout or
	definition from pre-lecture.
Students don't make interactive (applet)	More PR during lecture.
exercises	
Teachers have difficulty with details or	In slide packs only d <mark>efinitions,</mark> graphs, pictures
sequence of slide packs	and quiz questions are included.
Feedback Fruits quizzes sometimes take too	Teachers are trained to say upfront: 'You have 2
long	minutes' or to say: 'Another 30 seconds before
	closing the question'.
Students may rely too much on the "help"	In MyMathLab a few questions with help and a
they ge <mark>t in MyMa</mark> thLab	few without help, so students have to solve it
	themselves.

67

Good luck with your blended learning

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For questions: <u>I.M.Vos@tudelft.nl</u> Videos available on: math-explained.tudelft.nl