STACK-tests in Mathematics 1

Niclas Larson
University of Agder & MatRIC

Presentation at Øresundsdagen 3

Lund, 2 November 2022

Who am I?

- Associate professor, University of Agder, Kristiansand, Norway
- Centre for Research, Innovation and Coordination of Mathematics Teaching (MatRIC)
- Live in Stockholm
- I am Swedish

UiA

MatRIC Centre for Research, Innovation and Coordination of Mathematics Teaching

CENTRE FOR EXCELLENCE IN EDUCATION

Mathematics 1

1. First course (7.5 p) at Campus Grimstad ($N \approx 400$)
2. Earlier – classical final exam
3. Pass rate < 60 %
4. Avoid high-stake exam
5. Four exams in STACK (60 %)
6. Written task – essay (40 %)
7. Dean active in the change

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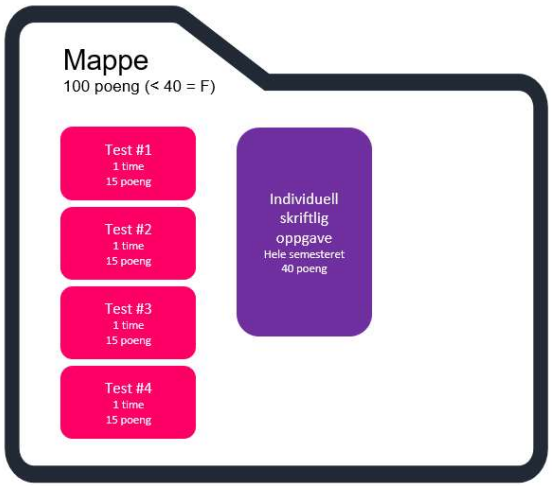
Semester plan (L. A. Løfhaugen, UiA)



Timeplan for Samordna Opptak prøve #1
Aud C2 036

Uke 37	Man 12/9	Tirs 13/9	Ons 14/9	Tors 15/9
14:15 - 15:15		Forsøk #1 Data		
16:15 - 17:15	Forsøk #1 Mekatronikk	Forsøk #1 Elektronikk Fornybar energi	Forsøk #2 Elektronikk Fornybar energi	Forsøk #2 Bygg AI
18:15 - 19:15	Forsøk #1 Bygg AI		Forsøk #2 Mekatronikk	Forsøk #X Alle studieprogram Påmelding via lenke i Canvas

Uke 38	Man 19/9	Tirs 20/9	Ons 21/9	Tors 22/9
14:15 - 15:15		Forsøk # 2 Data		
16:15 - 17:15	Forsøk #X Alle studieprogram Påmelding via lenke i Canvas	Forsøk #X Alle studieprogram Påmelding via lenke i Canvas	Forsøk #X Alle studieprogram Påmelding via lenke i Canvas	Forsøk #X Alle studieprogram Påmelding via lenke i Canvas
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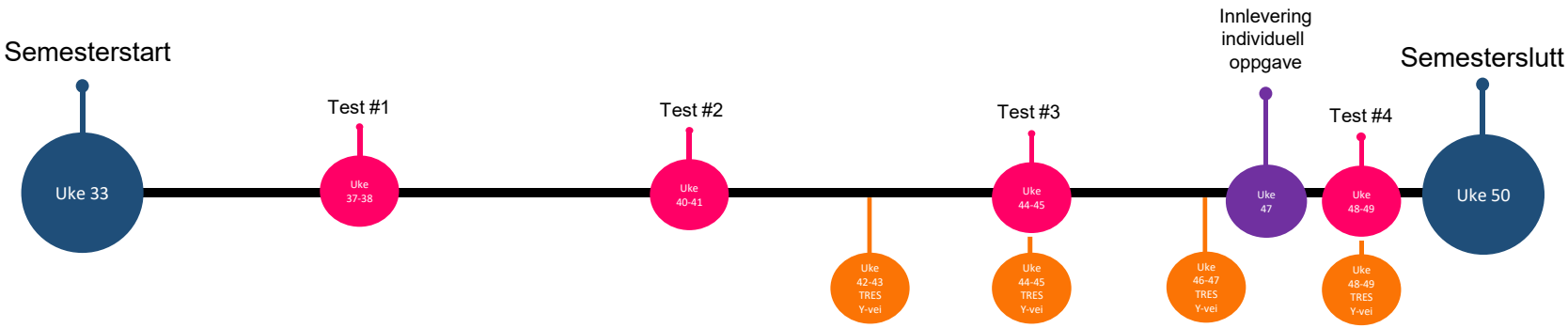

Folder: STACK-tests + written task

1. Four tests (60 %) – first week: 37, 40, 44, 48 (regular track)
2. Repeated chances within the period
3. Best of each will count
4. Maximum 15 p $\Rightarrow$ total 60 p ($=$ 60 %)
5. Written task $=$ 40 %
6. Sum will give grade
7. E $=$ 40 %; D $=$ 50 %; C $=$ 60 %; B $=$ 80 %; A $=$ 90 %

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1. Score well, 12–15 p
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3. Last attempt: short time, results vary
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Reflections

1. One goal: early study start
2. Lecture more freely
3. What if 4/5 get A or B?
4. "Hacking" the system
5. Learning outcome?
6. Start early, basic skills?
7. Something else gets lost?

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Research

1. Quantitative analyses
2. Master project – student interviews
3. Qualitative research project?
4. Do students act differently?
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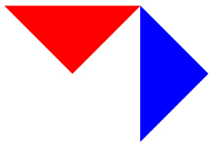
Conference theme

1. How does research in mathematics education influence first year university courses in mathematics?
2. How do first year mathematics courses influence research in mathematics education?

End

- Thank you for listening!
- Niclas Larson, associate professor at the Department of Mathematical Sciences
- University of Agder, Kristiansand, Norway
- MatRIC
- niclas.larson@uia.no



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