

MARINE ENGINEER THROUGH DISTANCE LEARNING IN A GROUP ORGANIZED SETUP

The road to
better learning

AAMS

Aarhus Maskinmesterskole
Aarhus School of Marine and Technical Engineering

Speakers:

- Associate Professor
Per Hessellund
- Student
Anders Lassen
- Student
Kristian Horup
Larsen

AGENDA

- Learning processes based on a social constructivist concept
- Building a case-/scenario-based group organized course
- The program viewed from two students' point of view



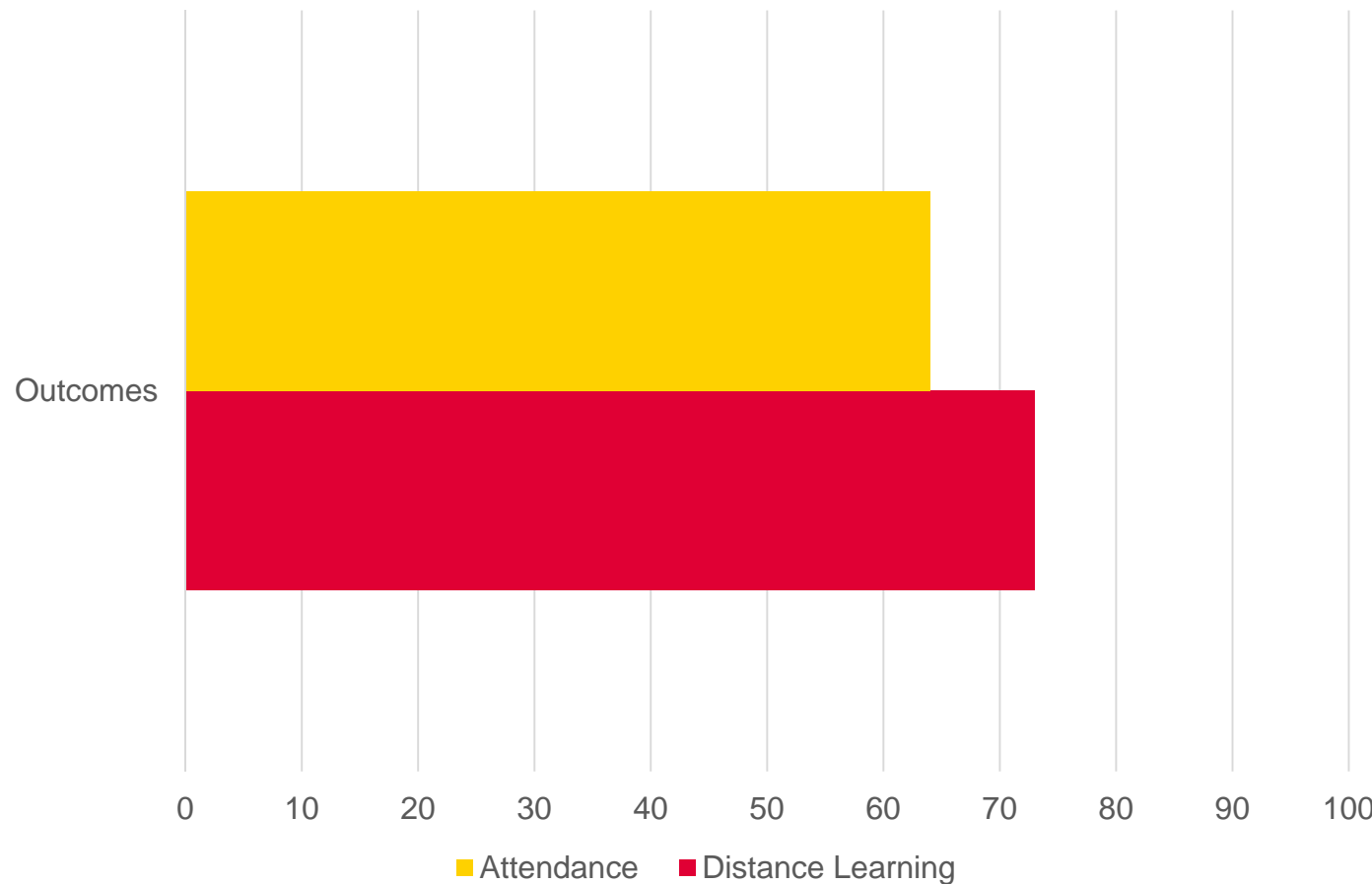
BACKGROUND



The road to better learning

- Bachelor`s Degree (3 years)
- Practical vocational background
- Older than the attendance students
- Started in 2010
- Class size 20-40 students
- Students from all parts of Denmark

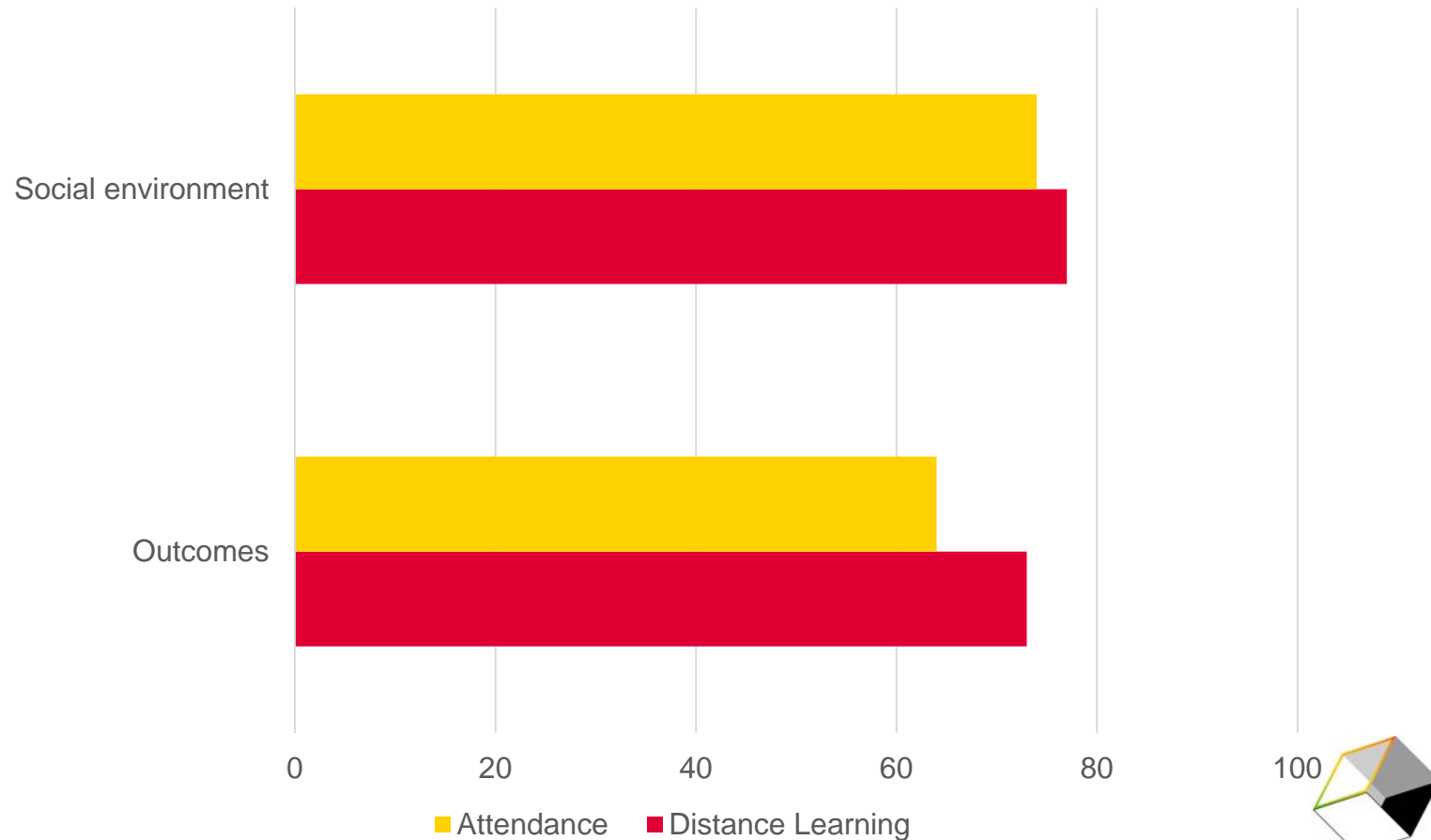
RESULTS – STUDENT SURVEY – HOW ARE YOUR EXPERIENCES AT THE PROGRAM AS REGARDS ...



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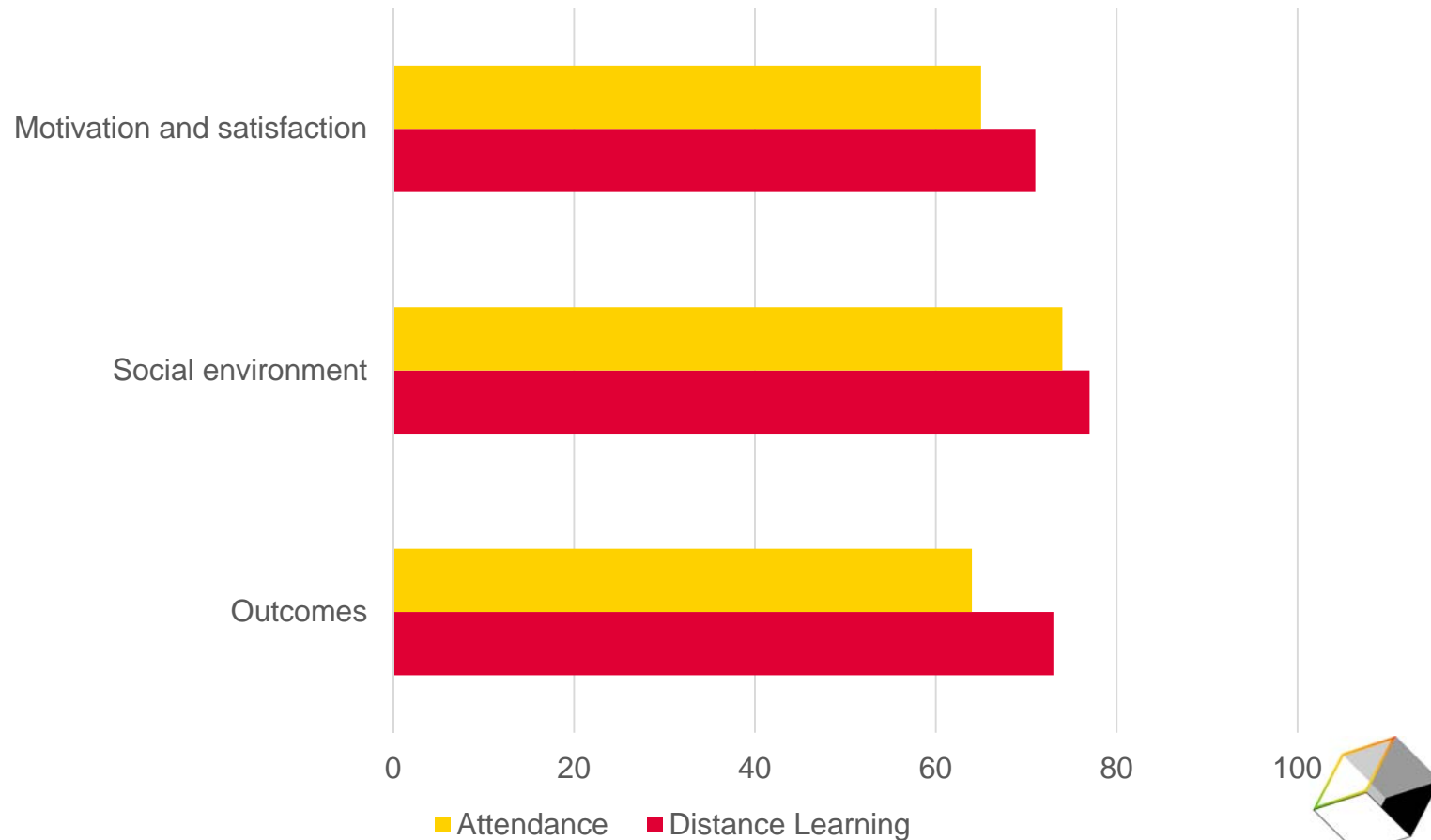
RESULTS – STUDENT SURVEY – HOW ARE YOUR EXPERIENCES AT THE PROGRAM AS REGARDS



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RESULTS – STUDENT SURVEY – HOW ARE YOUR EXPERIENCES AT THE PROGRAM AS REGARDS ...



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PEDAGOGICAL FRAMEWORK



Social constructivism

- Interaction

PEDAGOGICAL FRAMEWORK



Communities of practice

- Group organized
- Sharing
- Planning

Social constructivism

- Interaction

PEDAGOGICAL FRAMEWORK



Problem based learning

- Stop the boring lessons
 - The students at the steering wheel
- Meet the students at their learning points

Communities of practice

- Group organized
 - Sharing
 - Planning

Social constructivism

- Interaction

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SEARCH FORUMS

[Advanced Search](#)

LINK

Case 1 meeting Recording group

- Group A
- Group B
- Group C
- Group D
- Group E
- Group F

[basement room](#)

[TM - Homework](#)

[EL - Homework](#)

Guidelines

[Book a supervisor](#)

documents

[Link to the group G-docs](#)

[additional subjects](#)

- Home
- Electrical Engineering
- Management
- thermal machines
- Project methodology and internationalization
- Assignments



CASE 1 - MARINE ENGINEERING

The vision
Our students will through broad cooperation on the team achieve a methodical and analytical approach to systems on MS Collaboration, so they could be part of a project team working in the area (marine engineering).

[your progress](#)

REGISTRATION, EVALUATION AND THE LIKE.

- [The mid-term evaluation](#)
- [Registration for attendance In](#)
- [Status after the first training weeks](#)
- [Registration for attendance seminar II](#)

[LINK TO GROUP DOCUMENTS AND CONNECT RECORDINGS](#)

RECENT ACTIVITIES

Activity since Tuesday, May 3, 2016, 14:00

[Full report of recent activity ...](#)

NEW POST:

[Turbin](#) May 3, 14:17
Hannegard Laurien
" **Sample 3, task 2** "

[Peter Hannegard](#) 4 May, 11:38
Gael
" **Service manual on DG and how affected the operation of the motor with a retrofit Turbocharger TCR** "

[Alan Thørbæk](#) 4 May, 15:09
" **Ang: Service manual in DG and how affected the operation of the motor with a retrofit Turbocharger TCR** "

UPCOMING EVENTS

- [Christ's Ascension](#)
Tomorrow , 02:00
- [EL - While waiting for the right tasks \(quiz closes\)](#)

SCENARIO

SCENARIO 3

EL scenario 3

4. - 10. april 2016

presentations:

- Preparation of the AC alternating current (1/2) , (2/2)
- AC alternating voltage values (1/1)
- AC Impedansbegrebet - the coil (1/3) , (2/3) , (3/3)
- AC Impedansbegrebet - condenser (1/2) , (2/2)

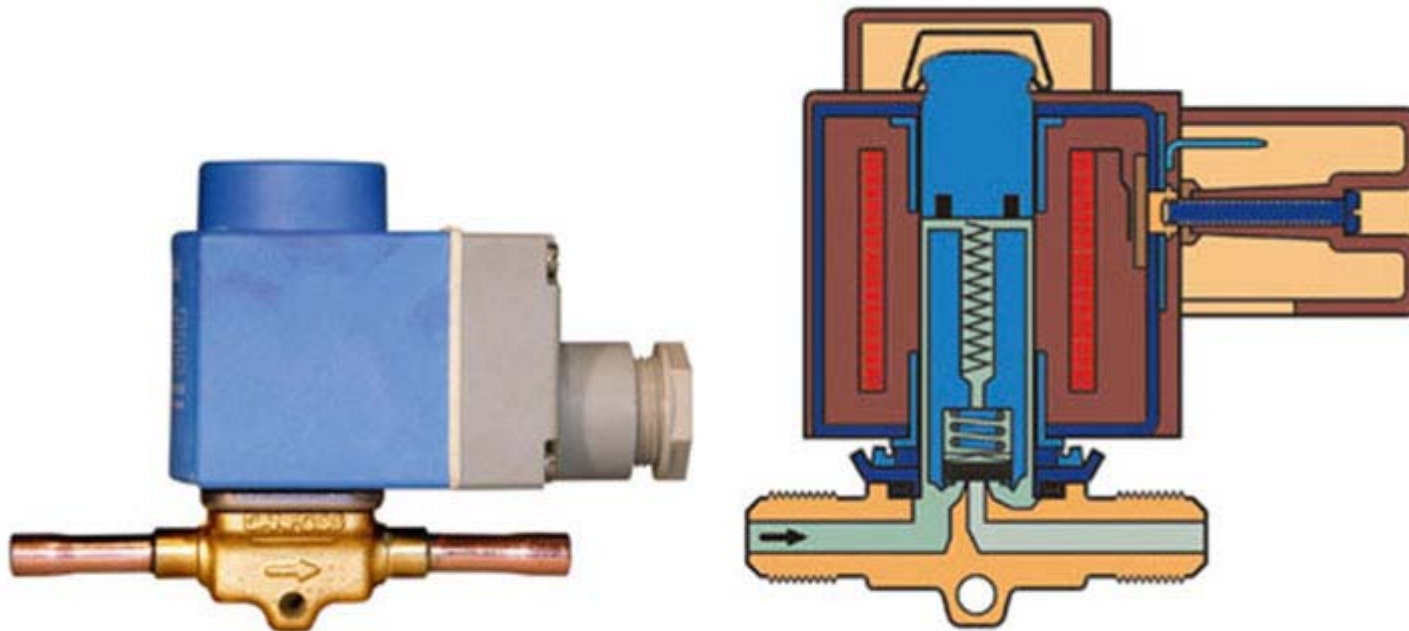
Instructions EL scenario 3

Even Tester - basic AC

This is just a small test that you can take if you just want to see if you are with 🌟

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SCENARIO



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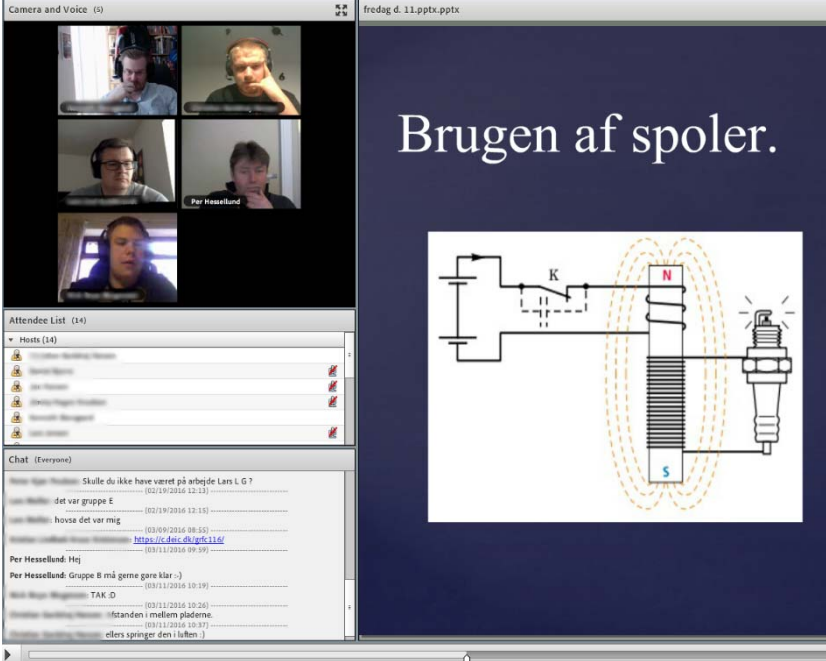
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focus

- 1-phase sinusoidal alternating
- Period and frequency
- reactance
- capacitance
- Resistance
- Current, voltage and power at AC
- Vectors and Complex numbers.

Literature

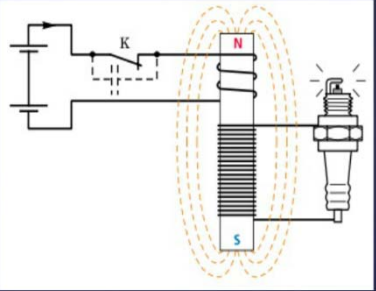
- **Electrical Circuit Theory & Tecnology, Bird**
Afsnit: 14, 15, 16, 23.1-23.5, 24.1-24.2
- AC circuits: alternating current electricity, The University of New South Wales, SYDNEY:<http://www.animations.physics.unsw.edu.au/jw/AC.html>
- Khan Academy: Trigonometry : cos, sin and tan.
- See Video on unit circle (from Frividen.dk)
- Basics of vectors (Linking to external source, make sure to save the document)
- Video: Vectors and complex numbers - basic.
-



Camera and Voice (5)

fredag d. 11.pptx.pptx

Brugen af spoler.



Attendee List (14)

Hosts (14)

Chat (Everyone)

Skulle du ikke have været på arbejde Lars L G ?
det var gruppe E
hvoaa det var mig
<https://ic-hat-01.gig5.116>
Per Hesselund: Hj
Per Hesselund: Gruppe B må gerne gøre klar :-)
TAK D
ifstanden i mellem pladerne
ellers springer den i luften :-)

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