

Blackboard Introduction for TAs @ CS – August 19, 2015

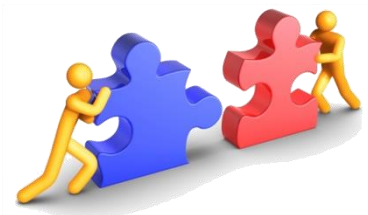
We  Blackboard

Background

- Blackboard – AU's central generic course management system
 - Replacing several existing systems (including CourseAdmin @ CS)
 - CS started using Blackboard in Spring 2015
 - System has its  and 
 - AU conservative : AU runs a one year old version to ensure stability
- **Our responsibility – make the best usage of Blackboard !**
- Patience ... don't expect the impossible ...



... help each other to find solutions ...



Forelæsere/Lecturers (= "Instructor" in Blackboard)

- Most lecturers used to use CourseAdmin
 - ...and still obliviously hoping to find the same features in Blackboard
 - ...and definitely never used Blackboard as a student
- Several lecturers use <iframe> tags to maintain course content outside Blackboard (Aslan, Gerth, Gudmund, Henrik, ...)
 - ...unrealistic that course pages are uniform across courses



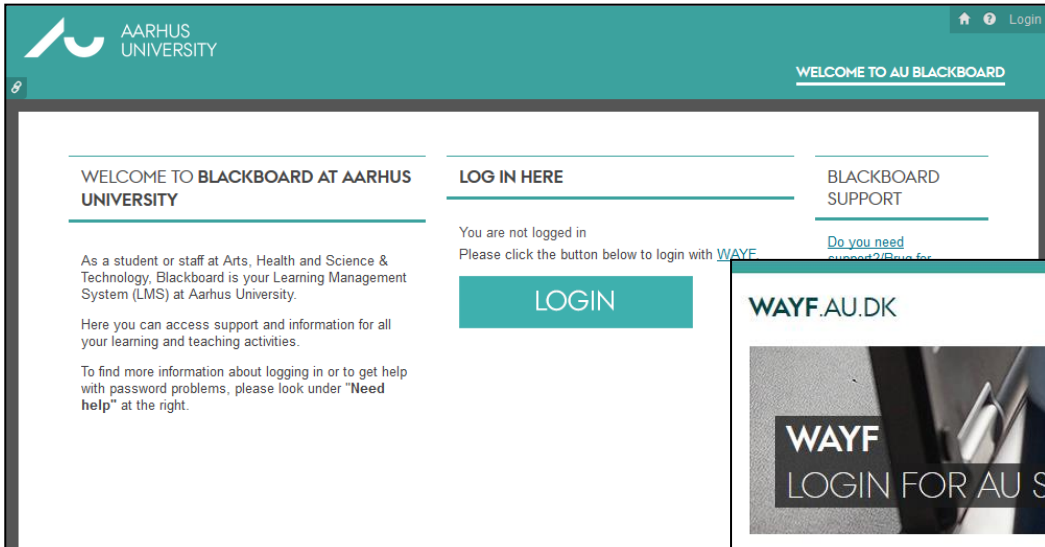
Instruktorer/TAs (= "Teaching Assistant" in Blackboard)

- Powerful – essentially same privileges as instructors
 - can update webpages (if not <iframe>'ed)
 - can see and comment on *all* student handins
 - cannot enroll new instructors and TAs
- Experience Blackboard from both student and instructor view

TAs can have a high influence on how the department uses blackboard !

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Login – bb.au.dk



AARHUS UNIVERSITY

WELCOME TO AU BLACKBOARD

WELCOME TO BLACKBOARD AT AARHUS UNIVERSITY

As a student or staff at Arts, Health and Science & Technology, Blackboard is your Learning Management System (LMS) at Aarhus University.

Here you can access support and information for all your learning and teaching activities.

To find more information about logging in or to get help with password problems, please look under "Need help" at the right.

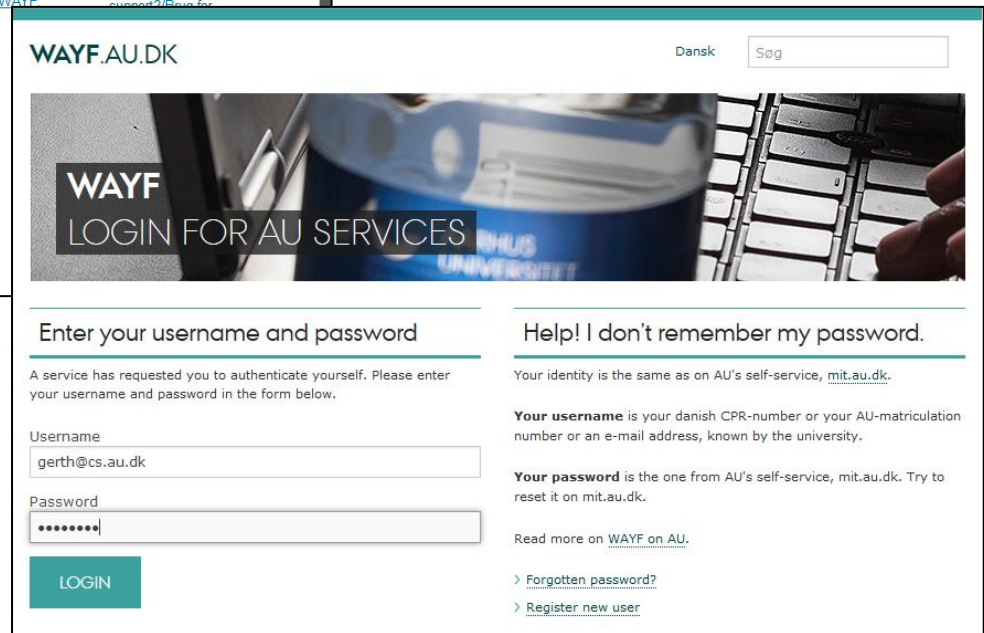
LOG IN HERE

You are not logged in
Please click the button below to login with WAYF

LOGIN

BLACKBOARD SUPPORT

[Do you need support?](#)



WAYF.AU.DK

Dansk

WAYF LOGIN FOR AU SERVICES

Enter your username and password

A service has requested you to authenticate yourself. Please enter your username and password in the form below.

Username

Password

LOGIN

Help! I don't remember my password.

Your identity is the same as on AU's self-service, [mit.au.dk](#).

Your username is your danish CPR-number or your AU-matriculation number or an e-mail address, known by the university.

Your password is the one from AU's self-service, mit.au.dk. Try to reset it on mit.au.dk.

Read more on [WAYF on AU](#).

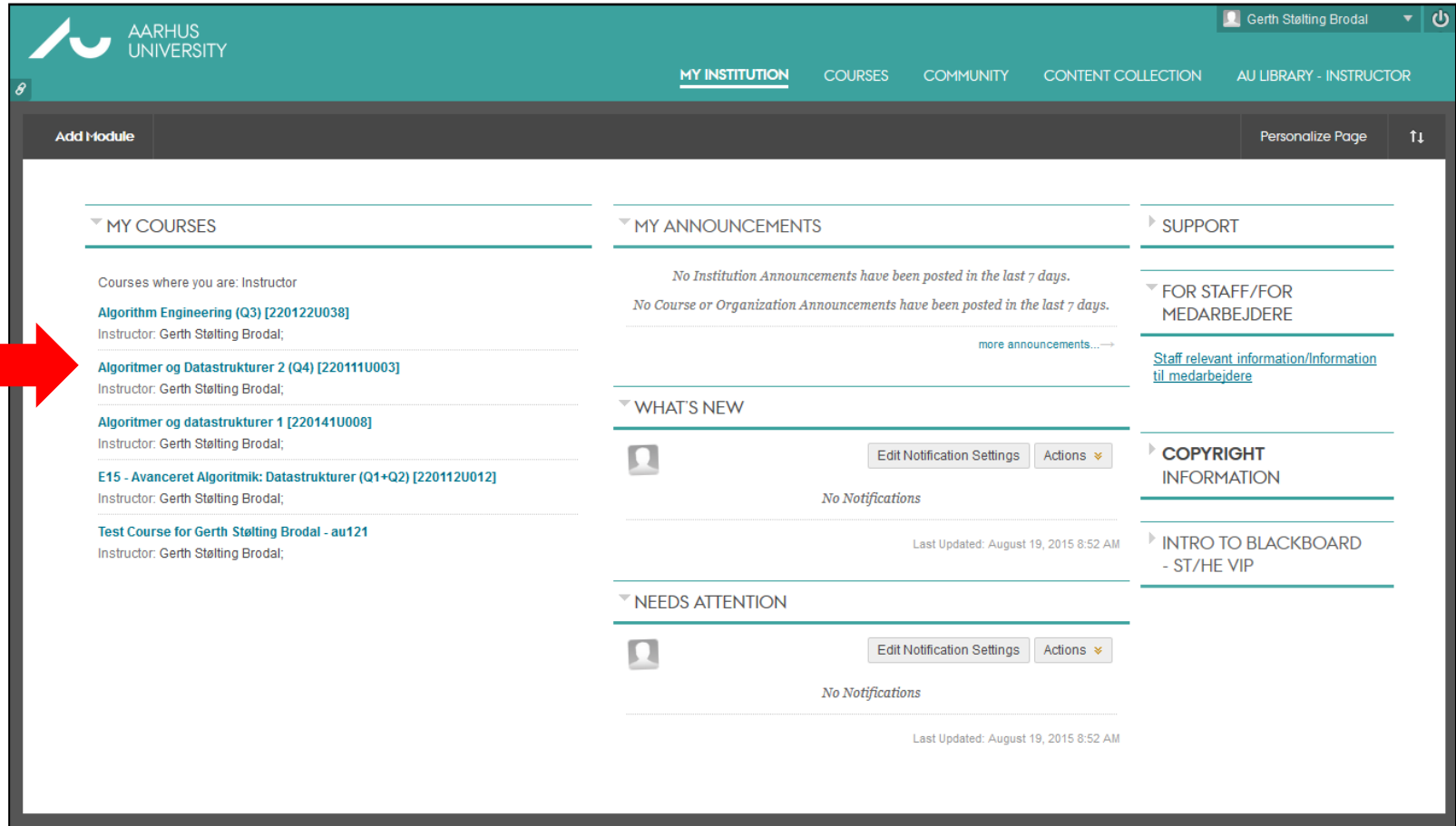
> [Forgotten password?](#)

> [Register new user](#)

blackboard.au.dk is only
for BSS courses

Your home page

find
your
course

MY COURSES

Courses where you are: Instructor

[Algorithm Engineering \(Q3\) \[220122U038\]](#)
Instructor: Gerth Stølting Brodal;

[Algoritmer og Datastrukturer 2 \(Q4\) \[220111U003\]](#)
Instructor: Gerth Stølting Brodal;

[Algoritmer og datastrukturer 1 \[220141U008\]](#)
Instructor: Gerth Stølting Brodal;

[E15 - Avanceret Algoritmik: Datastrukturer \(Q1+Q2\) \[220112U012\]](#)
Instructor: Gerth Stølting Brodal;

[Test Course for Gerth Stølting Brodal - au121](#)
Instructor: Gerth Stølting Brodal;

MY ANNOUNCEMENTS

No Institution Announcements have been posted in the last 7 days.
No Course or Organization Announcements have been posted in the last 7 days.
[more announcements...](#)

WHAT'S NEW

No Notifications
Last Updated: August 19, 2015 8:52 AM

NEEDS ATTENTION

No Notifications
Last Updated: August 19, 2015 8:52 AM

SUPPORT

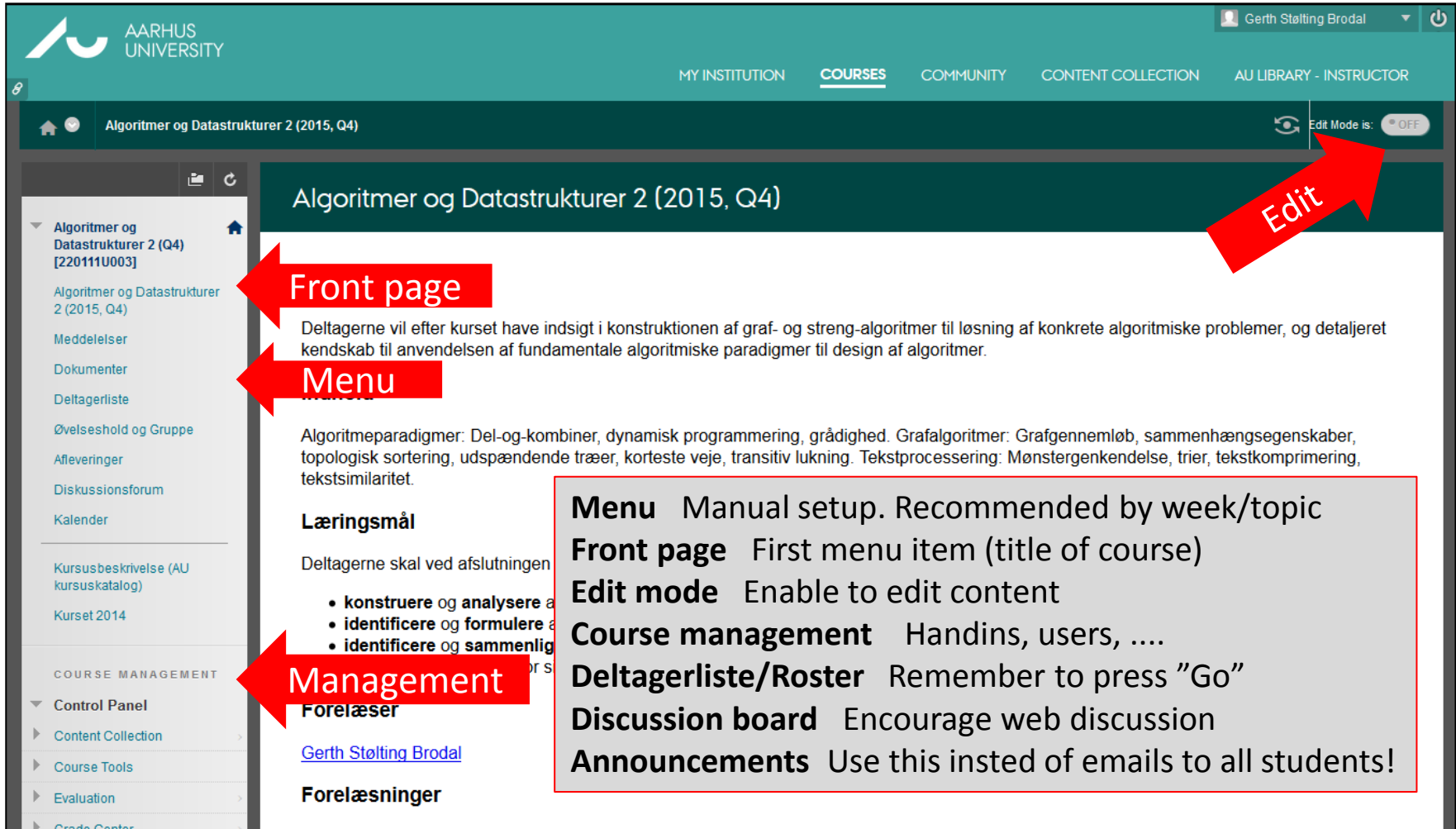
FOR STAFF/FOR MEDARBEJDERE
[Staff relevant information/Information til medarbejdere](#)

COPYRIGHT INFORMATION

INTRO TO BLACKBOARD - ST/HE VIP

Course missing? Ask lecturer to enroll you as Teaching Assistant

Course page



The screenshot shows the Blackboard interface for a course. The top navigation bar includes 'MY INSTITUTION', 'COURSES', 'COMMUNITY', 'CONTENT COLLECTION', and 'AU LIBRARY - INSTRUCTOR'. The course title 'Algoritmer og Datastrukturer 2 (2015, Q4)' is displayed. A left-hand menu lists various course elements. The main content area shows a description of the course and learning objectives. Red arrows point to the 'Front page' (the main title), the 'Menu' (the left-hand navigation list), and the 'Management' section (the 'COURSE MANAGEMENT' section in the left menu). A red arrow also points to the 'Edit' button in the top right corner. A red box contains a summary of these features.

Front page Deltagerne vil efter kurset have indsigt i konstruktionen af graf- og streng-algoritmer til løsning af konkrete algoritmiske problemer, og detaljeret kendskab til anvendelsen af fundamentale algoritmiske paradigmer til design af algoritmer.

Menu Algoritme-paradigmer: Del-og-kombiner, dynamisk programmering, grådighed. Grafalgoritmer: Graf gennemløb, sammenhængsegenskaber, topologisk sortering, udspændende træer, korteste veje, transitiv lukning. Tekstprocessering: Mønstergenkendelse, trier, tekstkomprimering, tekstsimilaritet.

Management **Læringsmål**
Deltagerne skal ved afslutningen

- konstruere og analysere a
- identificere og formulere a
- identificere og sammenlig

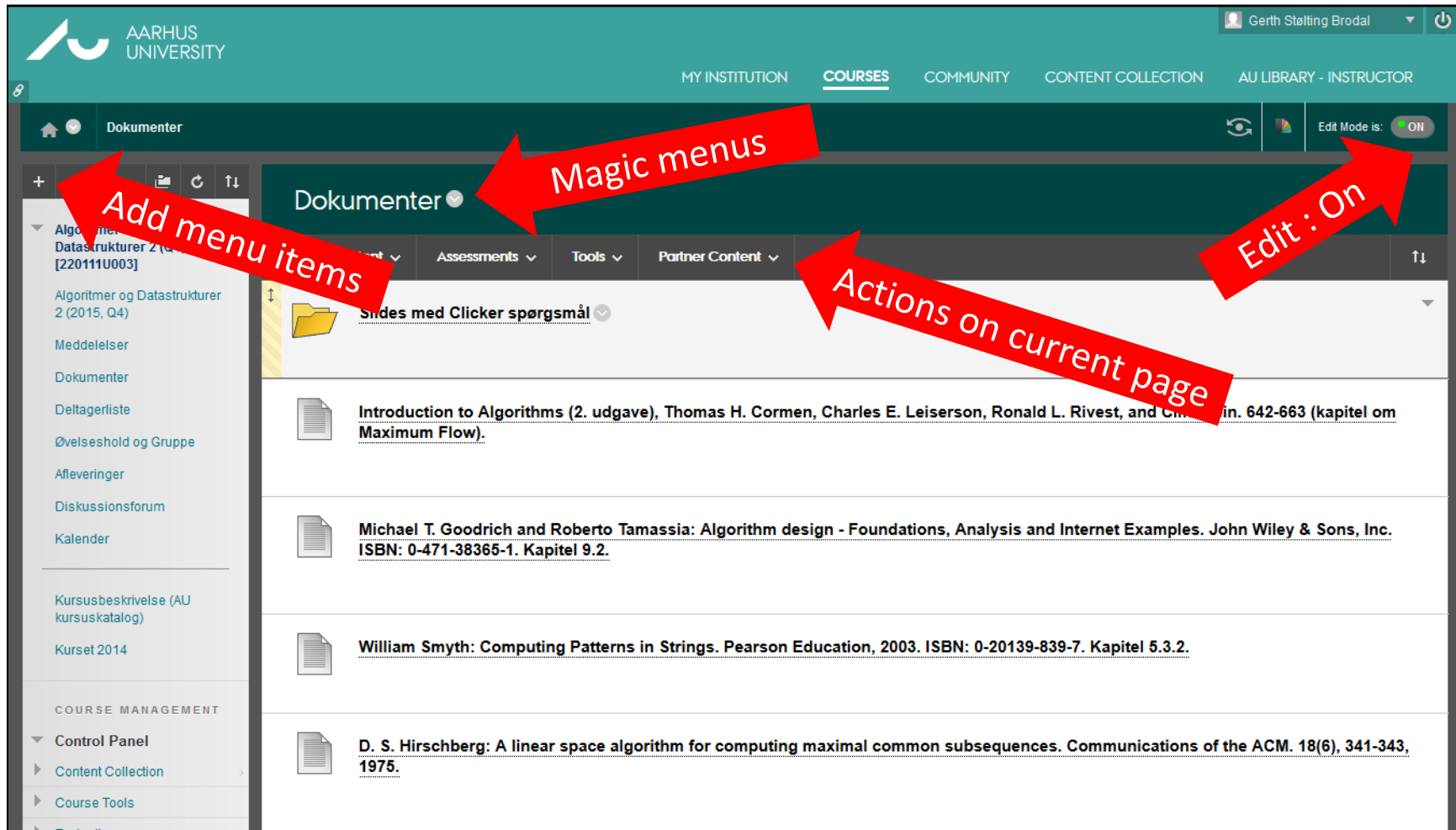
Forelæser
[Gerth Stølting Brodal](#)

Forelæsninger

Menu Manual setup. Recommended by week/topic
Front page First menu item (title of course)
Edit mode Enable to edit content
Course management Handins, users,
Deltagerliste/Roster Remember to press "Go"
Discussion board Encourage web discussion
Announcements Use this insted of emails to all students!

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Course page (Edit mode)



The screenshot shows the Blackboard course page in Edit mode. The interface includes a top navigation bar with the Aarhus University logo and the user's name, Gerth Stølting Brodal. Below this is a secondary navigation bar with links to MY INSTITUTION, COURSES (highlighted), COMMUNITY, CONTENT COLLECTION, and AU LIBRARY - INSTRUCTOR. The main content area is titled 'Dokumenter' and displays a list of documents. On the left, there is a sidebar with a 'Dokumenter' section containing links to 'Algoritmer og Datastrukturer 2 (2015, Q4)', 'Meddelelser', 'Dokumenter', 'Deltagerliste', 'Øvelseshold og Gruppe', 'Aflæveringer', 'Diskussionsforum', and 'Kalender'. Below this is a 'COURSE MANAGEMENT' section with links to 'Control Panel', 'Content Collection', 'Course Tools', and 'Evaluation'. The main document list includes:

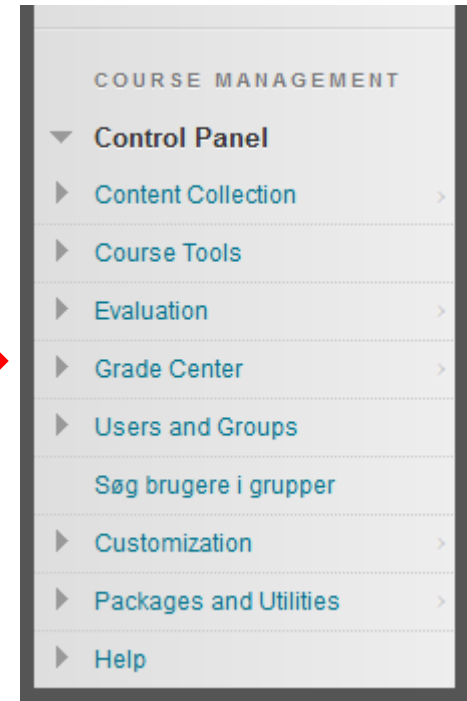
- Introduction to Algorithms (2. udgave), Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, and Charles Stein. 642-663 (kapitel om Maximum Flow).**
- Michael T. Goodrich and Roberto Tamassia: Algorithm design - Foundations, Analysis and Internet Examples. John Wiley & Sons, Inc. ISBN: 0-471-38365-1. Kapitel 9.2.**
- William Smyth: Computing Patterns in Strings. Pearson Education, 2003. ISBN: 0-20139-839-7. Kapitel 5.3.2.**
- D. S. Hirschberg: A linear space algorithm for computing maximal common subsequences. Communications of the ACM. 18(6), 341-343, 1975.**

Four red arrows point to specific features:

- Add menu items:** Points to the '+' icon in the left sidebar.
- Magic menus:** Points to the 'Dokumenter' dropdown menu in the top navigation bar.
- Actions on current page:** Points to the 'Assessments', 'Tools', and 'Partner Content' dropdown menus in the main content area.
- Edit : On:** Points to the 'Edit Mode is: ON' toggle in the top right corner.

Course Management (Control panel)

- Only visible to Instructors and TAs
- **Grade Center** here you find handins to correct
- **Users and Groups** enroll students and manage groups (TA classes, handin groups, ...)



- **Søg brugere i grupper**
Greasemonkey browser plugin by Mathias Rav
<https://github.com/Mortal/bbdyn>

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User lists (most students automatically enrolled through STADS)

Users

Find Users to Enroll

Search: Username Not blank Go

Refresh Page 1 of 7 >>

☐	Username	First Name	Last Name ▲	Email	Role	Observer	Available
☒	 au449843 ▼	Torben Esbo	Agergaard	201204208@post.au.dk	Student		Yes
☐	 au232181	Nicolai	Agersbæk	20073671@post.au.dk	Student		Yes
☐	 au522406	Aram Azad Fouad	Al-Sabti	201406080@post.au.dk	Student		Yes
☐	 au468508	Ghaith Anmar	Ali	201408870@post.au.dk	Student		Yes
☐	 au468660	Simon Alexander	Alsing	201304202@post.au.dk	Student		Yes
☐	 au519077	Niklas Elmose	Andersen	201407945@post.au.dk	Student		Yes
☐	 au256930	Siri Nygaard	Andersen	20083832@post.au.dk	Student		Yes
☐	 au338376	Kristian Bak	Andersen	20113786@post.au.dk	Student		Yes
☐	 au513696	Simon Normann	Andersen	201406829@post.au.dk	Student		Yes
☐	 au323584	Kristian	Andersen-Møller	20115993@post.au.dk	Student		Yes
☐	 au471620	Daniel Alexander	Andreassen	201303833@post.au.dk	Student		Yes
☐	 au484353	Markus	Andreassen	201304194@post.au.dk	Student		Yes

Manual group membership management

+

📁 ↺ ↻ ↕

▼

Algoritmer og Datastrukturer 2 (Q4)
 [220111U003]

Algoritmer og Datastrukturer 2 (2015, Q4)

Meddelelser

Dokumenter

Deltagerliste

Øvelseshold og Gruppe

Afleveringer

Diskussionsforum

Kalender

Kursusbeskrivelse (AU kursuskatalog)

Kurset 2014

COURSE MANAGEMENT

▼

Control Panel

▶

Content Collection

▶

Course Tools

▶

Evaluation

▶

Grade Center

▼

Users and Groups

Groups

Users

🏠

All Groups

Group Sets

All Users

Filter:

(vælg gruppe) ▼

Search:

Any ▼

Contains ▼

Go

☐ Show all users regardless of role
 ☐ Alle på 1 side

➡

Add Multiple Users to Groups

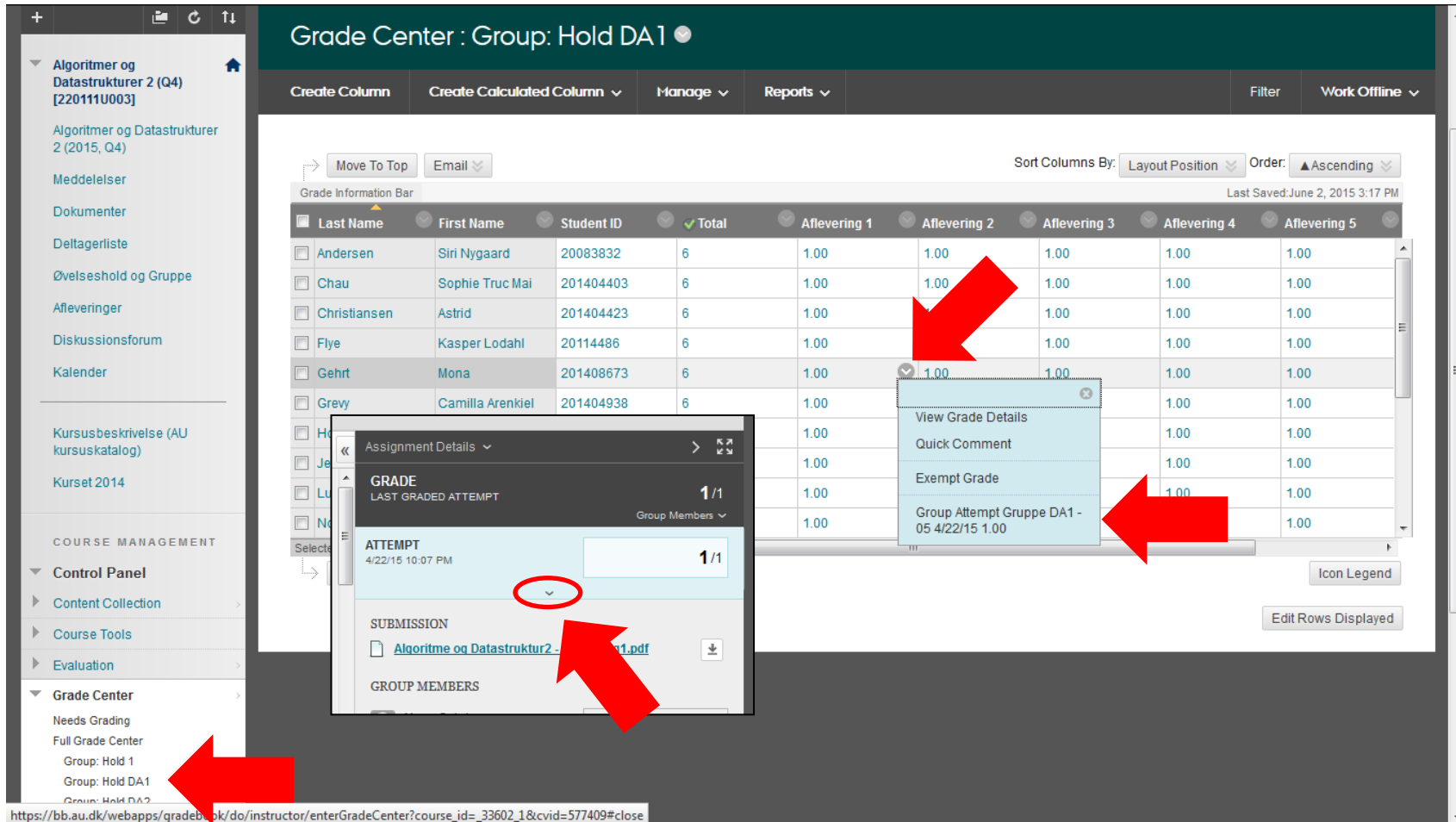
Page 1 of 7 > >>

☐	Username	First Name	Last Name	Role	Groups
☐	au462659	Anton Brogaard	Bondesen	Student	
☐	au446279	Jan Fogsgaard	Jensen	Student	
☐	au521167	Magnus	Vestergaard	Student	
☐	au517165	Michael Minh	Phan	Student	+ Add to Group
☐	au510828	Miki Peter Thårup	Høegh	Student	
☐	au523773	Peter Sahilholdt	Hansen	Student	
☐	au522275	Astrid	Christiansen	Student	Gruppe DA1 - 02 ✕ Hold DA1 ✕
☐	au523746	Camilla Arenkiel	Grevy	Student	Gruppe DA1 - 02 ✕ Hold DA1 ✕
☐	au337600	Anton Vinther Brun	Madsen	Student	Hold 1 ✕ Gruppe 1 - 03 ✕
☐	au483330	Johnny Skaarup Redzin	Hansen	Student	Hold 1 ✕ Gruppe 1 - 05 ✕
☐	au338710	Christian Doormann	Møller	Student	Hold 1 ✕ Gruppe 1 - 08 ✕

Assignments

- Blackboard supports many types of assignments
 - individual assignments
 - group handins
 - peer reviewing
 - quizz
 - discussion board activity
 - ...

Grading handins



Grade Center : Group: Hold DA1

Sort Columns By: Layout Position Order: ▲Ascending

Last Saved: June 2, 2015 3:17 PM

Last Name	First Name	Student ID	Total	Aflevering 1	Aflevering 2	Aflevering 3	Aflevering 4	Aflevering 5
Andersen	Siri Nygaard	20083832	6	1.00	1.00	1.00	1.00	1.00
Chau	Sophie Truc Mai	201404403	6	1.00	1.00	1.00	1.00	1.00
Christiansen	Astrid	201404423	6	1.00	1.00	1.00	1.00	1.00
Flye	Kasper Lodahl	20114486	6	1.00	1.00	1.00	1.00	1.00
Gehrt	Mona	201408673	6	1.00	1.00	1.00	1.00	1.00
Grevy	Camilla Arenkiel	201404938	6	1.00	1.00	1.00	1.00	1.00

Assignment Details

GRADE
LAST GRADED ATTEMPT
1/1
Group Members

ATTEMPT
4/22/15 10:07 PM
1/1

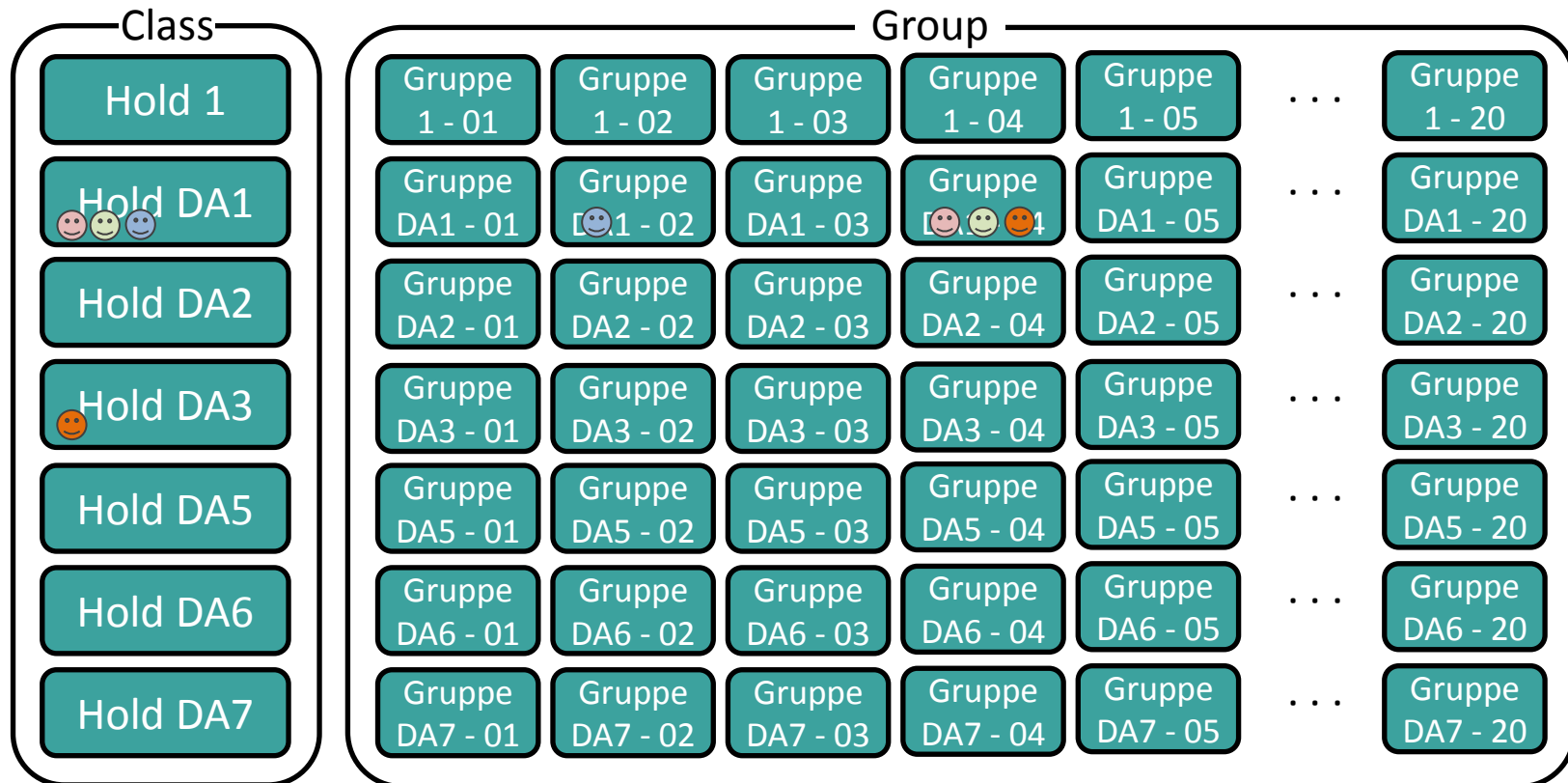
SUBMISSION
Algoritme og Datastruktur 2 - 1.pdf

GROUP MEMBERS

https://bb.au.dk/webapps/gradebook/do/instructor/enterGradeCenter?course_id=_33602_1&cvid=577409#close

TA classes and group handins

One way (dADS2) : 2 "group sets" with "self-enroll"



Each student self-enrolls into one TA class and one group

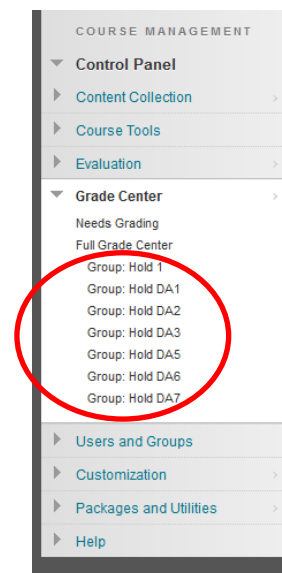
TA classes

- Students enrolled into courses & Blackboard through "STADS"
 - Students assigned to ta classes through study plan (læseplanen)
 - **By letting students "self-enroll" into TA classes**
 - Students confirm that they attend the course (many ghost students during first year)
 - Changing TA classes does not require TA action (except for an ok)
 - TAs should "self-enroll" to their class
-
- The TA class / "Hold" groups give
 - possibility to communicate with TA class
 - "SmartView" in "Grade Center" for each TA class

GROUP TOOLS

[Group Discussion Board](#)

[Send Email](#)



Creating group handins (for lecturers)

- **Each group assignment must be assigned to a set of groups**
 - A set of empty (handin) groups are created before the course starts
 - All group handins can be made available at the beginning of the course by assigning them to these empty groups
 - Students "self-enroll" when groups get known (or when first handin)

[Submission Details](#)

Assignment Type

☐ Individual Submission

☒ Group Submission

Items to Select

- Gruppe 1 - 18
- Gruppe 1 - 19
- Gruppe 1 - 20
- Gruppe DA1 - 01
- Gruppe DA1 - 02
- Gruppe DA1 - 03
- Gruppe DA1 - 04

Invert Selection Select All

Selected Items

Invert Selection Select All

Student view (dADS2)

Øvelseshold og Gruppe



Øvelseshold og Instruktører

Hold	Dag	Tid	Sted	Instruktør
1	Onsdag	8-11	IT-huset, lokale 112 (5520-112)	Casper Freksen, cfreksen@cs.au.dk
DA1	Tirsdag	8-11	IT-huset, lokale 129 (5523-129)	Mathias Rav, rav@cs.au.dk
DA2	Mandag	11-14	IT-huset, lokale 129 (5523-129)	Ingo van Duijn, ivd@cs.au.dk
DA3	Onsdag	11-14	IT-huset, lokale 129 (5523-129)	Konstantinos Mampentzidis, kmampent@cs.au.dk
DA5	Fredag	8-11	IT-huset, lokale 129 (5523-129)	Bryan Wilkinson, wilkinson@cs.au.dk
DA6	Tirsdag	14-17	IT-huset, lokale 121 (5523-121)	Ingo van Duijn, ivd@cs.au.dk
DA7	Torsdag	8-11	IT-huset, lokale 129 (5523-129)	Bryan Wilkinson, wilkinson@cs.au.dk



Hold

Du skal tilmelde dig dit øvelseshold i Blackboard for at få rettet dine afleveringsopgaver af din instruktør. Find dit hold i [læseplanen](#). Hvis du ikke har noget hold, eller hvis du vil skifte hold, så skal du kontakte instruktøren for du tilmelder dig holdet for at se om det er ok.

Holdbytte: Kontakt instruktøren hvis du ønsker at skifte øvelseshold.



Gruppe

Du skal være i en (afleverings)gruppe for at kunne aflevere de obligatoriske afleveringsopgaver i kurset. Her kan du tilmelde dig en af de prædefinerede grupper.

Bemærk at gruppenavne består af "øvelseshold - gruppenr.". Brug CTRL-F for at finde dit øvelseshold.

Gruppeændringer: Kontakt instruktøren hvis du vil skifte gruppe.

Afleveringer



Afleveringer

Her kan du aflevere afleveringer hvis du er tilmeldt en gruppe.

Hvis du ikke er tilmeldt en gruppe, skal du gøre det under [Øvelseshold og Gruppe](#).



Afleveringsfrister

Aflevering	Hold 1	DA1	DA2	DA3	DA5	DA6	DA7
A1	19/04 08:00	19/04 23:59	19/04 23:59	19/04 23:59	15/04 11:59	19/04 23:59	14/04 23:59
A2	26/04 08:00	26/04 23:59	26/04 23:59	26/04 23:59	22/04 11:59	26/04 23:59	21/04 23:59
A3	03/05 08:00	03/05 23:59	03/05 23:59	03/05 23:59	30/04 11:59	03/05 23:59	28/04 23:59
A4	10/05 08:00	10/05 23:59	10/05 23:59	10/05 23:59	13/05 11:59	10/05 23:59	12/05 23:59
A5	17/05 08:00	17/05 23:59	17/05 23:59	17/05 23:59	20/05 11:59	17/05 23:59	19/05 23:59
A6	24/05 08:00	24/05 23:59	24/05 23:59	24/05 23:59	27/05 11:59	24/05 23:59	26/05 23:59

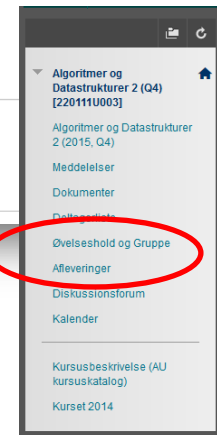


Aflevering 1

Kun synlig når man er tilmeldt en gruppe !



Aflevering 2



- Two pages with information on signing up to groups & TA classes and handins

Configuration of groups (for lecturers)

www.cs.au.dk/~gerth/blackboard/groups.php

Blackboard Groups for TA Classes and Handin Groups

Create groups.csv

Course language	Danish ▼
TA Class names	comma separated, e.g. "DA1,DA2,DA3,IT1,IT2" (see comment below on Blackboard bug)
# groups per class	e.g. "20", if zero no groups will be generated
Max. # students per group	e.g. "3", leave empty if unlimited

Create groups.csv

Background

If you are running a course using Blackboard,

▼ Karaktercenter

Resources

- **CourseAdmin → Blackboard** (slides, NFIT login)
<https://cs.au.dk/~amoeller/talks/pdf/Blackboard.pdf>
- **Creating group sets for handin**
<http://cs.au.dk/~gerth/blackboard/groups.php>
- **Søg brugere i grupper (Search users in groups)**
Greasemonkey browser plugin by Mathias Rav
<https://github.com/Mortal/bbdyn>
- **BB support**
<http://bbsupport.au.dk/en/support/>

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