

Digital assessment

Kurt Gammelgaard Nielsen
CIO
University of
Southern Denmark

SDU facts

Established 1966. Merger of 4 partners in 1998.
Another 6 mergers since.

5 faculties: Engineering, Science, Health Sciences,
Humanities, Business and Social Sciences

6 campuses – Odense is the main campus

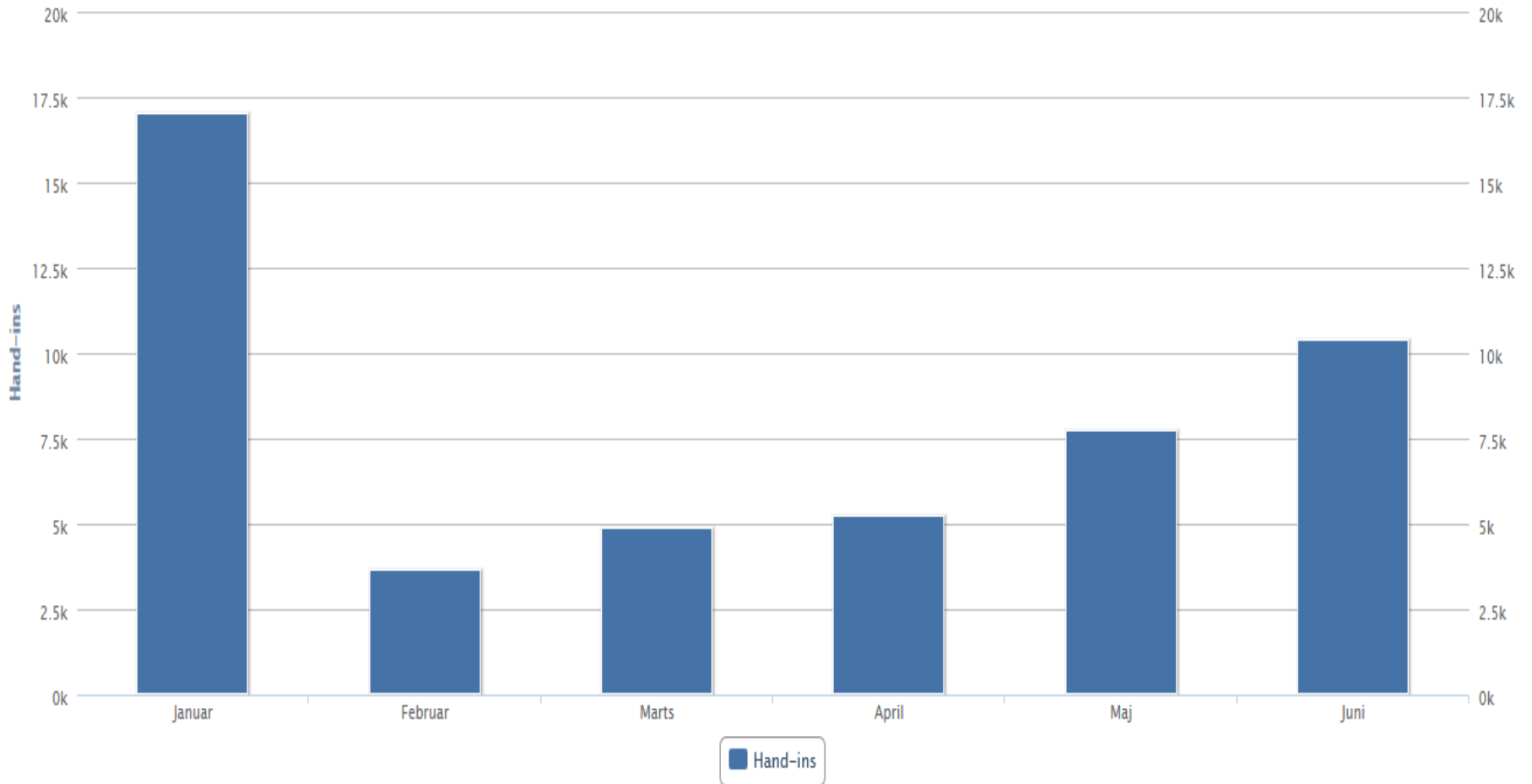
Students, no (oct. 2012): 26,034
(of which from other countries: 4,104)

Programs, no (bachelor + master): 222
(of which in English: 81)



Numbers of digital assessments/exam

Antal succesfulde afleveringer i SDU assignment / måned 2013



Hincharts

Why digital assessments?

The quality of the assessment is traditionally measured according to the following criteria:

Validity – the assessment measures the content (knowledge, skills, competences) it is supposed to measure

Reliability – the assessment is reliable – i.e. there is a consistent distinction between good and poor students

Feasibility – the resources, which are required to conduct the examination, are present

Acceptability – the assessment is widely accepted as being ‘good’ by students and faculty

Why digital assessments II

The validity and reliability of an assessment is a function of the number of questions asked in the assessment – the more questions, the better.

Numerous questions ensure that the entire content is tested (*content validity*) and that the result is not determined by chance (which examination questions the student draws).

Digitisation allows you to ask and mark numerous of (for instance MCQ) questions and create exam databases across institutions and nations.

Why digital assessments III

Teamwork skills, practical skills, critical analysis in for instance peer-reviews, reasoning in on-line discussions etc., are examples of things that would be possible to measure by using digital tools.

Reliability is also affected by the quality of the individual question – a question no one is able to answer cannot distinguish between good and bad performance. Digitisation facilitates the (statistical) analysis of the assessments so that the inferior questions can be identified and removed

Feasibility means that the resources, which are required to conduct the assessment, are present – e.g. staff, examination rooms, IT equipment and time. For each assessment you have to consider the balance between the significance of the test and the costs

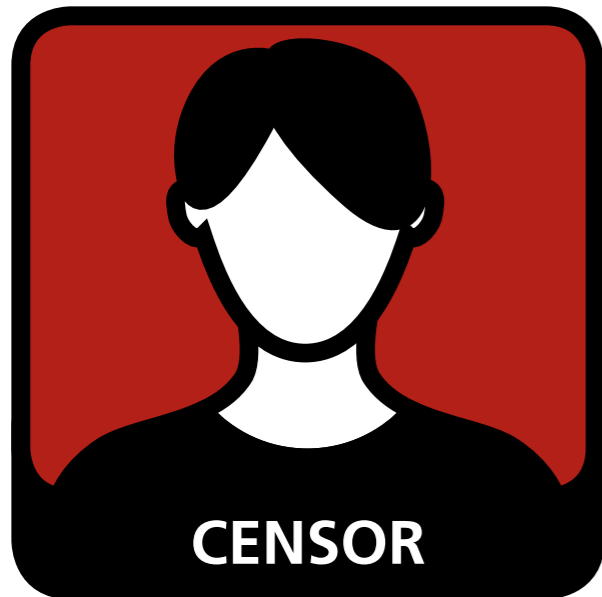
Digitisation provides different testing options and this will increase the requirements to quality when considering, which resources must be allocated to each individual test.

Why digital assessments IIII

In conclusion, we may assume that digitisation will provide more opportunities to

- **test what we want to test (and not only what we are able to test)**
- **make the assessments more fair and reliable**
- **diversify and re-allocate the costs**
- **to meet the legitimate demand of using digital media – also in assessments.**

SDU Scribble & SDU Assignment



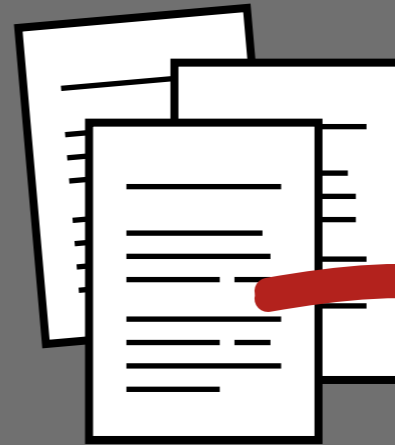
- BEFORE EXAM

- DURING EXAM

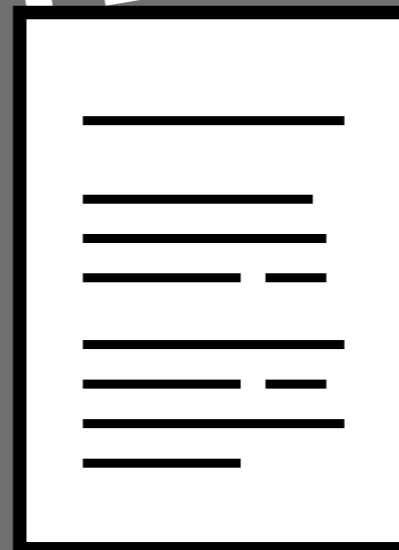
- AFTER EXAM

BEFORE EXAM:

THE TEACHER
DISTRIBUTE THE
ASSIGNMENT
DIGITAL.

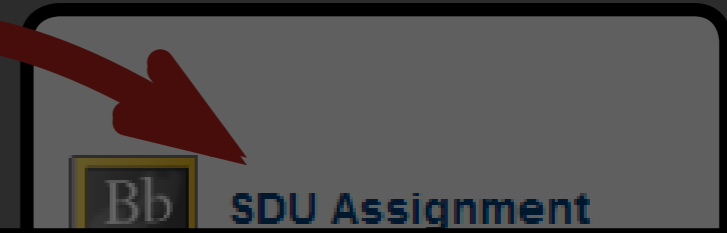
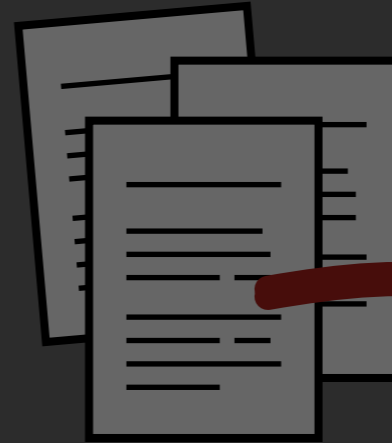


THE ASSIGNMENT
IS BEEN ENRICH
WITH METADATA
THAT CONTROL
THE HAND OUT.



- DEADLINE
- HOW MANY ATTEMPTS
- POSSIBILITY TO ATTACH DOCUMENTS
- ETC.

BEFORE EXAM:



Active Assignments

Ordered by ending date.

Serviceøkonomi, skriftligt seminar, efterår 2012

VIGTIGT:

- Opgaven skal afleveres som én samlet pdf. fil
- Der kan uploades flere gange inden for tidsfristen, det er kun den sidste upload der bliver sendt til bedømmelse
- Forsiden skal indeholde følgende oplysninger: Studium, fagets navn, afleveringsdato, fødselsdato, fuldt navn, hold, antal anslag
- Samtlige sider i besvarelsen skal indeholde sidetal, fødselsdato og navn.
- du/! skal *ikke* angive eksamens nr., da dette kun benyttes til anonyme eksamener

Files attached: None.

Max file size: 100 MB.

Identification method: CPR(non-anonymous).

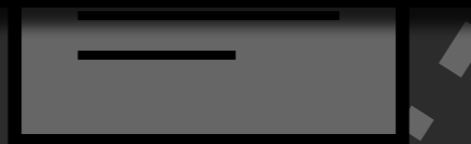
Assignment limitations: allow only one file per try.

Starts: 23. november 2012 11:20 (starting buffer: 0 min)

Ends: 11. december 2012 10:00 (ending buffer: 0 min)

Assignments received: 52.

Edit Show status Trash can Printer friendly SafeAssign Download assignments



- DEADLINE
- ETC.
-

BEFORE EXAM:

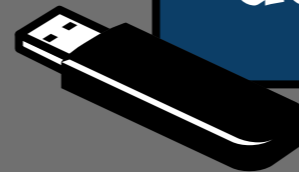
Preparation and training of equipment and system



Introduction
arr.

Testing of
devices

Use in education



DURING EXAM:

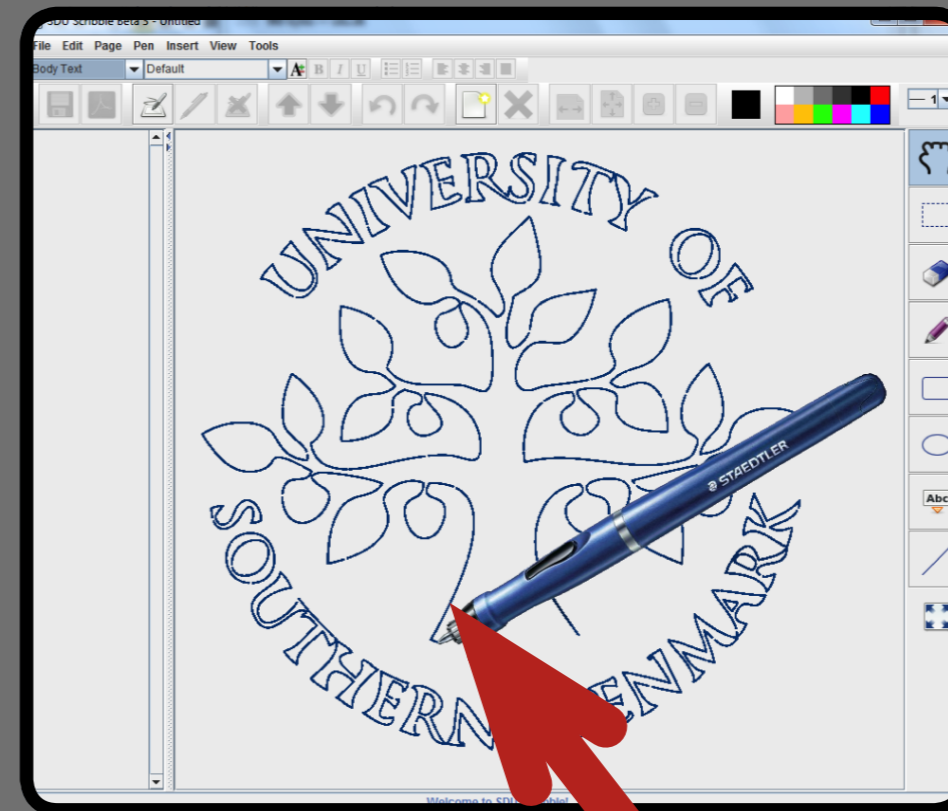
Preparing equipment



- EDUROAM
- BOOT USB
- SCRIBBLE
- ONE-TIME PASSWORD
- EXAM4 (ALT. T. SDU BOOT)

DURING EXAM:

Download assignment



SDU Assignment

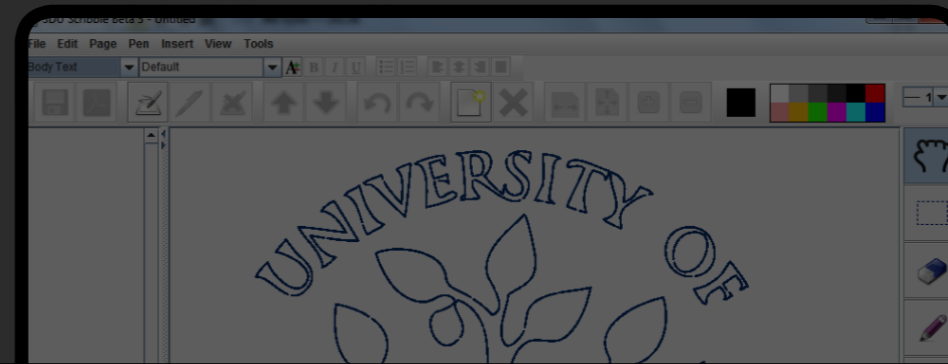
The new assignment hand in tool



Blackboard

During exam:

download



Course Assignments

Serviceøkonomi, skriftligt seminar, efterår 2012

VIGTIGT:

- Opgaven skal afleveres som én samlet pdf. fil
- Der kan uploades flere gange inden for tidsfristen, det er kun den sidste upload der bliver sendt til bedømmelse
- Forsiden skal indeholde følgende oplysninger: Studium, fagets navn, afleveringsdato, fødselsdato, fuldt navn, hold, antal anslag
- Samtlige sider i besvarelsen skal indeholde sidetal, fødselsdato og navn.
- du/ skal *ikke* angive eksamens nr., da dette kun benyttes til anonyme eksamener

Files attached: None.

Max file size: 100 MB.

Identification method: CPR(non-anonymous).

Assignment limitations: 'One file per attempt'.

Start: 23. november 2012 11:20

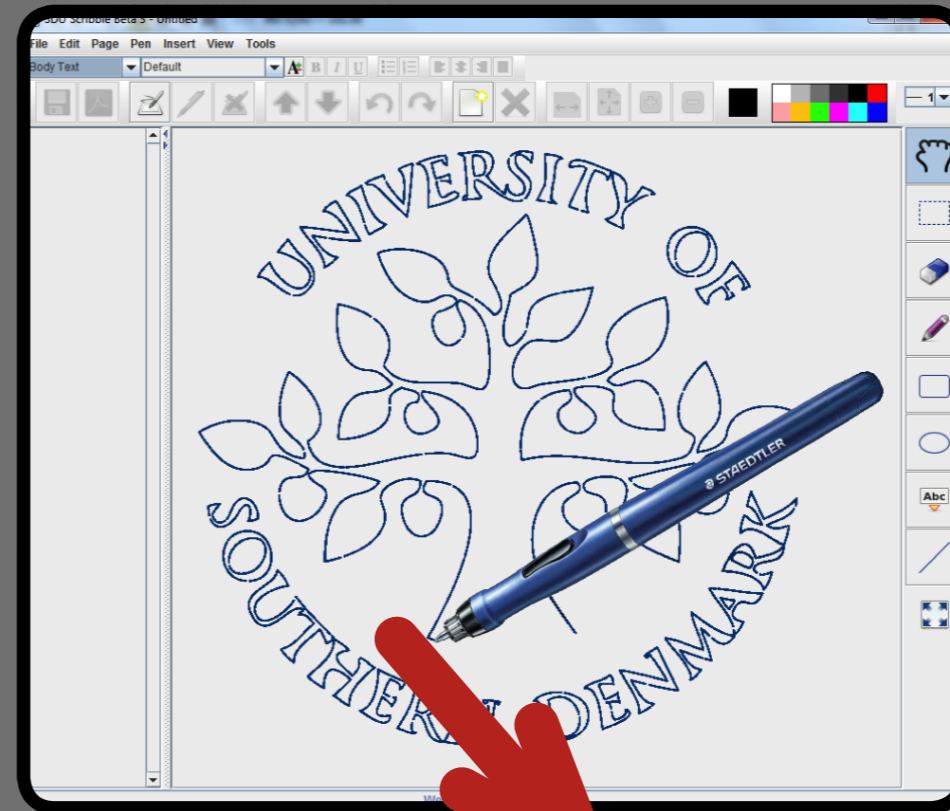
End: 11. december 2012 10:00

[Upload assignment](#)



During exam:

Upload assignment



SDU Assignment

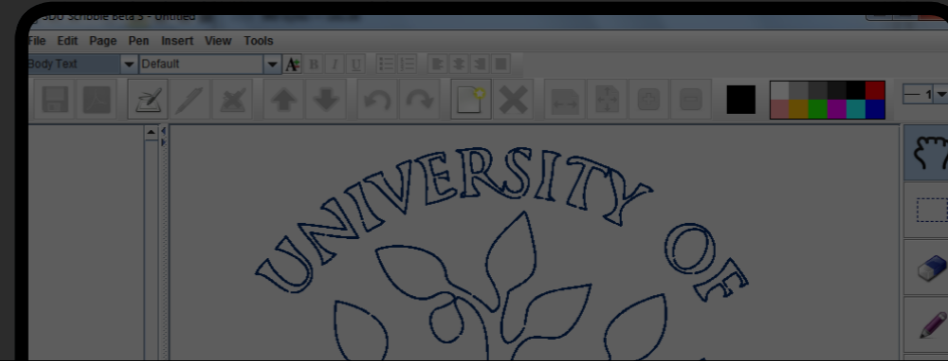
The new assignment hand in tool



Blackboard

UNDER EKSAMEN:

Aflevér opgave



Future Assignments (Inactive)

Ordered by starting date.

● Eksamen

Her skal du aflevere den tekst, du har skrevet om dig selv. Den sproglige udformning tæller med ved bedømmelse, derfor er det en god idé at læse en grundig korrektur inden du uploader. Når du først har trykket på knappen, kan du ikke senere rette det afleverede.

Teksten skal afleveres i PDF-format.

Files attached: [eksamensopgave.pdf](#)
[bilag.pdf](#)

Max file size: 10 MB.

Identification method: Exam number(anonymous).

Assignment limitations: force verification.

Network limitations: SDU Eduroam Wireless.

Starts: 19. december 2012 09:00 (starting buffer: 15 min)

Ends: 19. december 2012 13:00 (ending buffer: 15 min)

Assignments received: 0.

Edit

Show status

Trash can

Printer friendly

SafeAssign

Download assignments



DURING EXAM:

Emergency



Support

Supervisor
(logging, info)

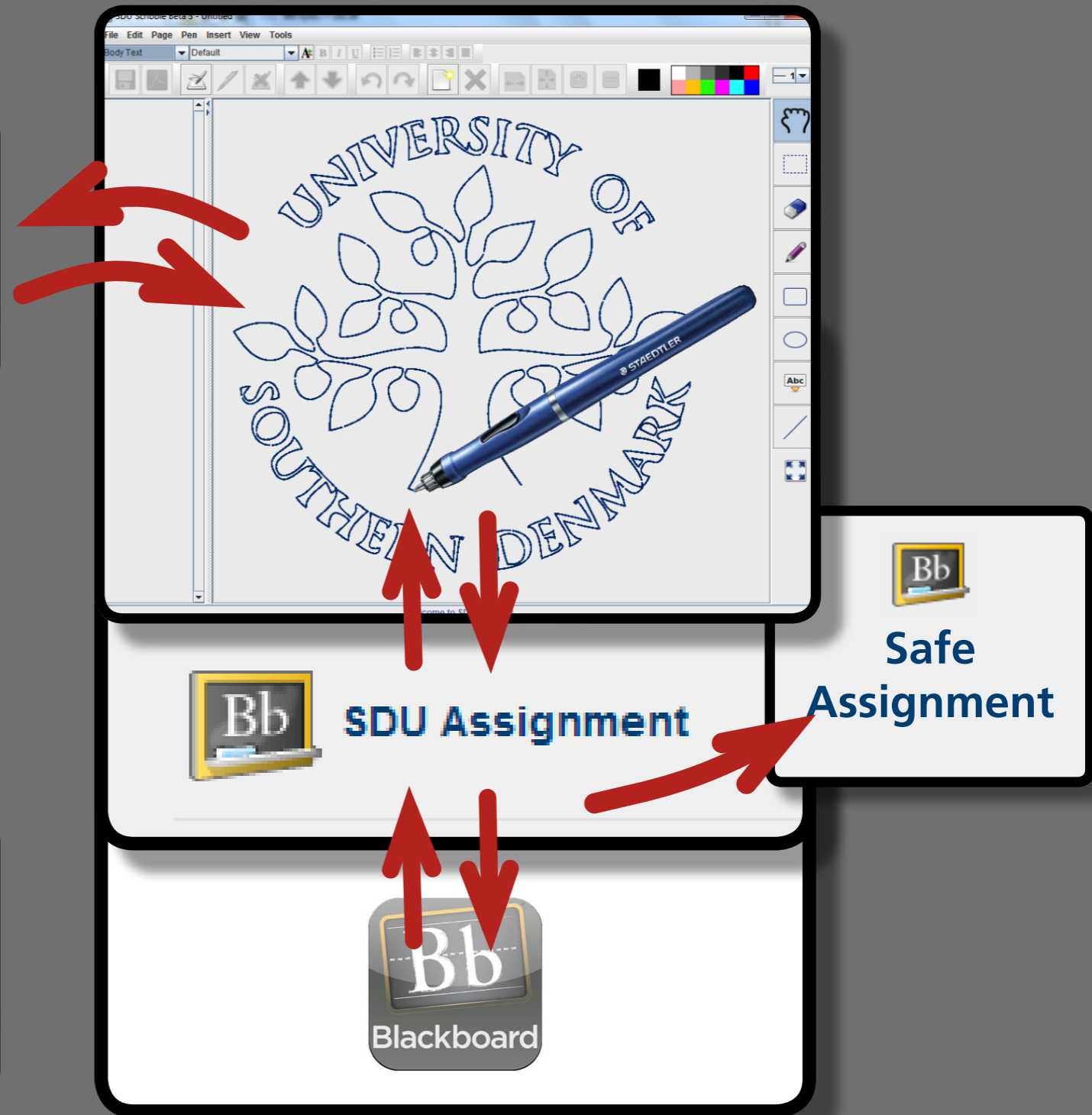
**Extra
equipment**

After exam:

Feedback/grade -
Teacher download
assignments.



The student gets
feedback/grade online
or e-mailed



After exam:



Received SDU Assignments

« < Page of 3 > »

CPR	Files	Submission timestamp
31017 4-1 06	Annette Nielsen - .pdf (4091.0 KB)	11. december 2012 09:58
120 2-1 01	Serviceøkonomi - Simon Skriver.pdf (304.0 KB)	11. december 2012 09:49
29 8 7-1 74	317961.pdf (252.0 KB)	11. december 2012 09:44
0407 2-1 01	Serviceøkonomi 040792.pdf (199.0 KB)	11. december 2012 09:42
1805 3-2	Eksameopgave Michael Heiberg.pdf (778.0 KB)	11. december 2012 09:32
2707 7-2	SØ eksamensopgave.pdf (265.0 KB)	11. december 2012 09:31
2906 3-3	DinoBalesic 200003-Serviceøkonomi.pdf (1247.0 KB)	11. december 2012 09:10
0306 1-1 01	Eksamensopgave_Serviceøkonomi_Thomas_Abildtrup.pdf (364.0 KB)	11. december 2012 08:57
2001 7-1	200101 Malou Lykkely.pdf (532.0 KB)	11. december 2012 08:46
2605 1 31 7	000570 Paw Algran.pdf (684.0 KB)	11. december 2012 08:45
0601 77	060177 Johnny Johannessen, serviceøkonomi.pdf (429.0 KB)	11. december 2012 08:39
010 89 13	Serviceøkonomi Michael Kenneth Rasmussen.pdf (367.0 KB)	11. december 2012 08:31
231 30 2	Eksamensopgave serviceøkonomi 11.12.2012 af Christian Granhøj.pdf (580.0 KB)	11. december 2012 08:27
220 8 -1	Susan Jensen 200000 1150.docx (1158.0 KB)	11. december 2012 08:25
260 6 -1 4	Udvikling af en mindre servicevirksomhed - Trim Service.pdf (2430.0 KB)	11. december 2012 07:00
260 3 -1 7	serviceøkonomi - ES312.pdf (563.0 KB)	11. december 2012 05:46
170 3 -1 0	HD1 SØ 201000.pdf (904.0 KB)	11. december 2012 02:23
3101 3 -1 8	Michael D. Bendixen (20101000).pdf (241.0 KB)	11. december 2012 02:02
270 3 10 8	serviceøkonomi - eksamensopgave 200001.pdf (1778.0 KB)	11. december 2012 01:52
220 3 1 1	Serviceøkonomi - Thomas Jørgensen 200101000.pdf (1331.0 KB)	11. december 2012 00:10
200 3 2	Serviceøkonomi Paw P. 200100.pdf (366.0 KB)	10. december 2012 23:22
240 3 1	HD1 projekt Service Økonomi_Kasper Nyman Andersen.pdf (1735.0 KB)	10. december 2012 22:57
270 6 2	201011. Serviceøkonomi eksamensopgave ADR 070000 2011 PDF.pdf (1508.0 KB)	10. december 2012 22:43
130 9	Serviceøkonomi 1 2000 .pdf (416.0 KB)	10. december 2012 22:42
260 3 1 2	Serviceprocessen hos Egetæpper - Dorthe.pdf (584.0 KB)	10. december 2012 21:56

« < Page of 3 > »

After exam:

Distributing and archiving -
SEKRETARY
archiverer in
documentarchive

Teacher and censor
download and upload
commeted assignment
from Scribble

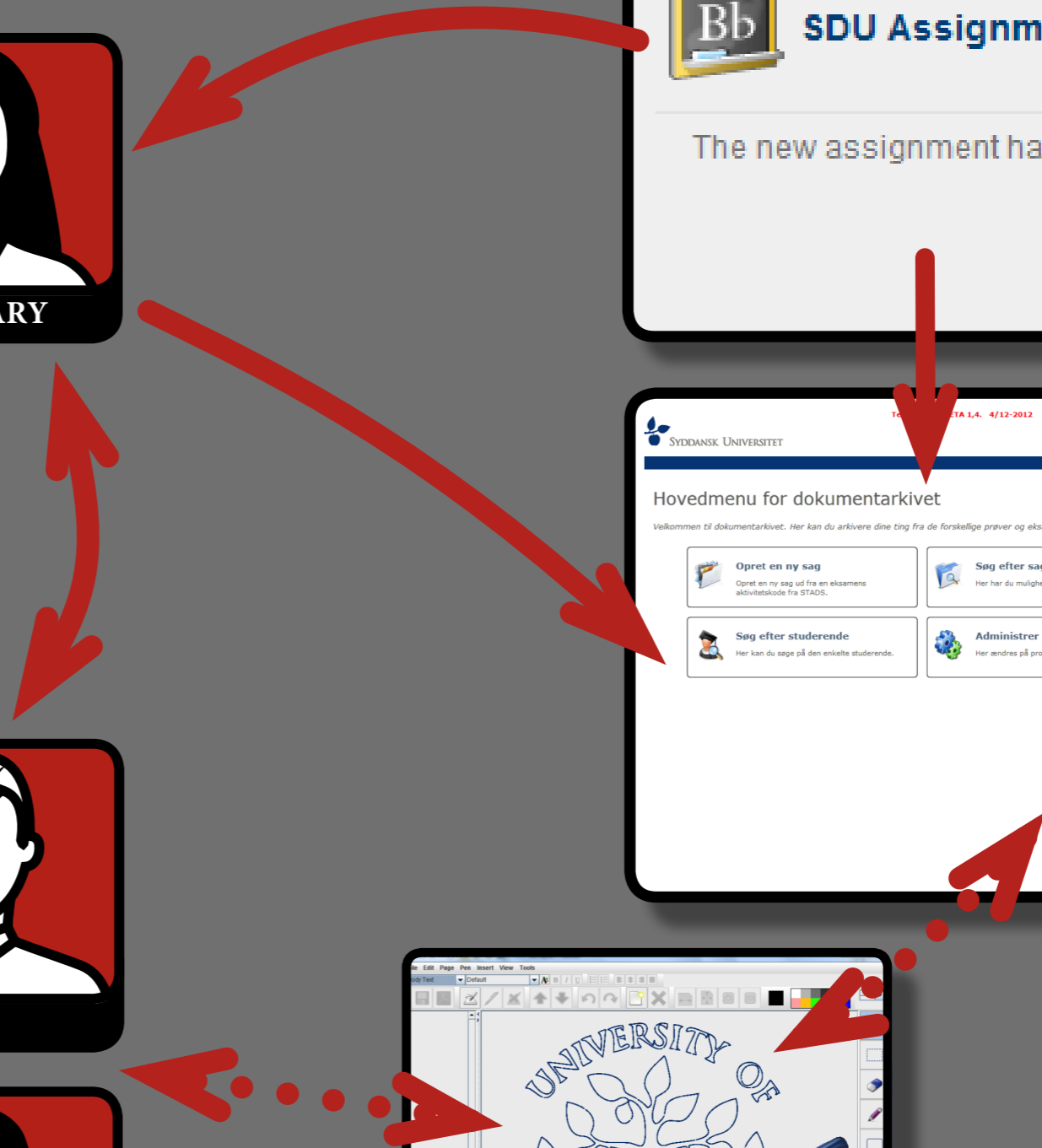
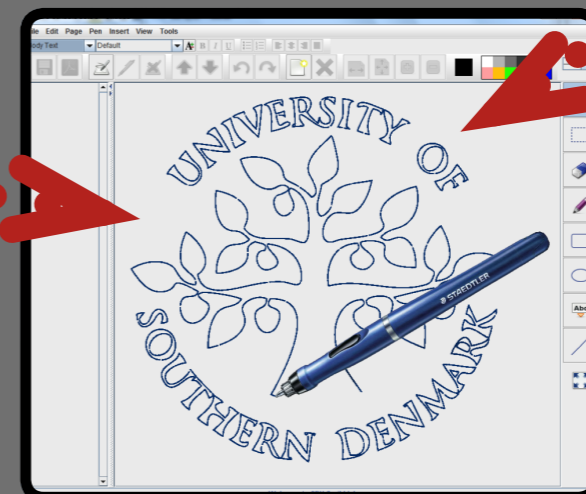
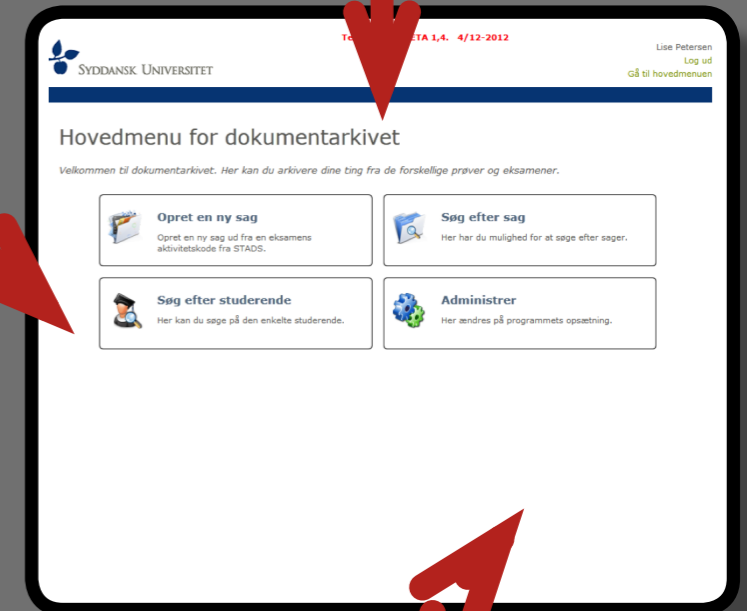
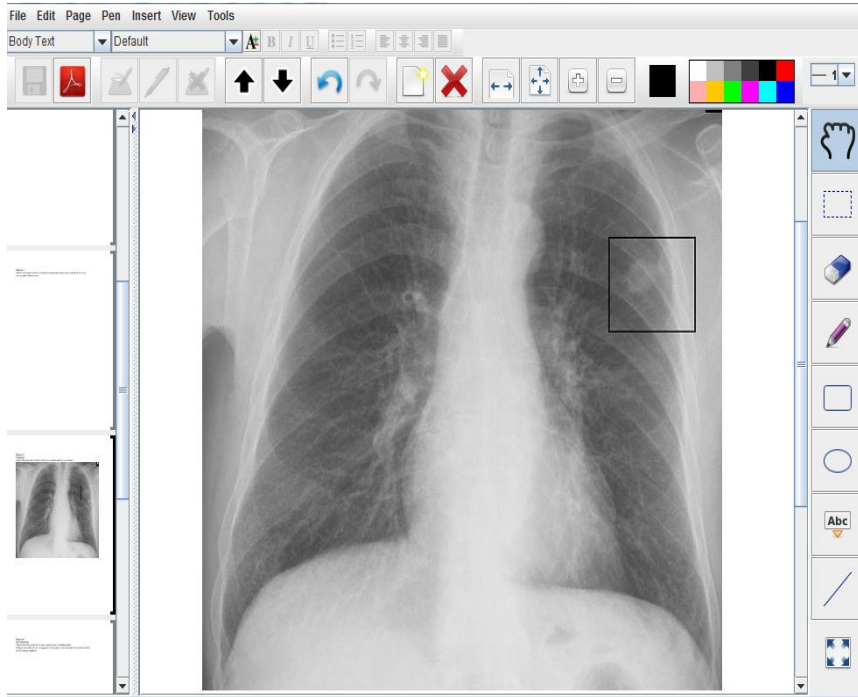


Photo from exam with Scribble



Q&A

- Kurt Gammelgaard Nielsen
- University of Southern Denmark
- E-mail: kgn@sdu.dk

Try SDU Scribble: <http://scribble.sdu.dk>

INNOTOUR (website: <http://innotour.com>) is a WEB 2.0 platform for education, research and business development in tourism. INNOTOUR is an experimental meeting place for academics, students and enterprises.