



University of Groningen

Digital Examination



Background



IDEM DITO 2011



FB DITO & Nestorsupport

2014

225 digital exams



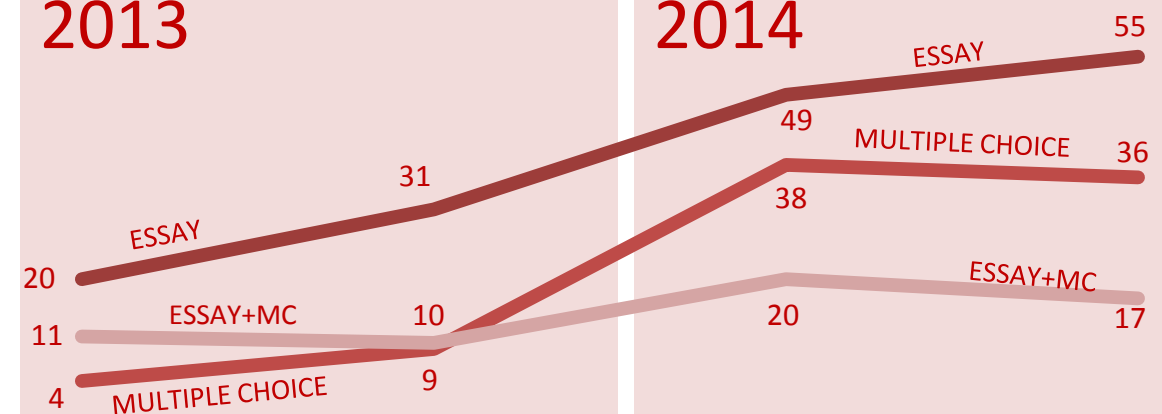
Aletta Jacobshal

288 exam tables

Supported by ESI/FB Dito
Other locations partially
supported by ESI/FB DiTo.
Support for more locations
in the near future



2013



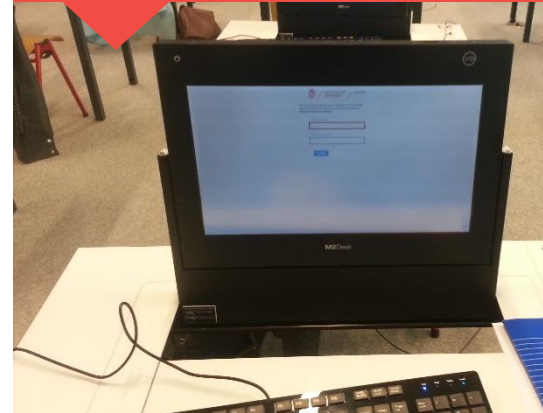
2014

Examination hall

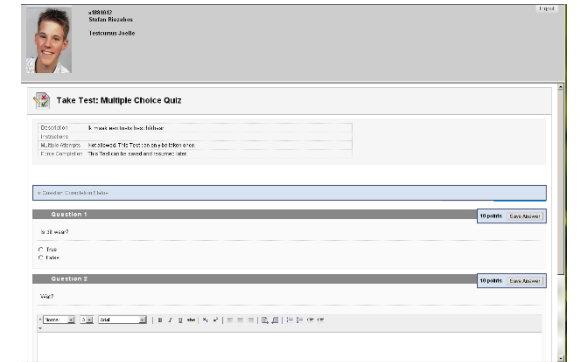
Aletta Jacobshall



COMPUTER



INTERFACE



MULTI FUNCTIONAL TABLES



Benefits Digital Examination

1

HANDWRITING

Reading the handwritten from your students at essay exams can be hard.

2

CORRECTING

Correcting the essay exams in Nestor is easier for a teacher. No more paperwork!

3

FLEXIBLE EXAMS

Flexible exams with advanced options like adaptive release for additional questions based on multiple choice exam scores.

4

MEDIA

You can use both video and audio in exams. The computers are equipped with a headphone plug.

5

STUDENTS

Students are able to rearrange text fragments easily. No more strikethrough and arrows!

6

REDUCE PAPER

Digital exams reduce amount of paper stored in archives etcetera, so it is a sustainable solution!



Process



intake



preparation



examination



processing



analysis

Before preparation

- Lecturer → Faculty Scheduler
- Schedules exam with “#DIGITAL” in Aletta Jacobs hall 3

Week 36: 1 – 5 Sep 2014

	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00
Mon 1/9		Organisatie en Technologie BDK intro.... Ruël, G C Stadskerk VBG Friesestraatweg 221		FFW lecture BDK Collegehal Blauwborgje 4	Groepsindeling BDK (AJH.... A. Jacobshal 02			Application Practical B.... A. Jacobshal 03	Application Practical B.... A. Jacobshal 03	Marketing BDK hoorcollege Verhoef, P.C. Collegehal Blauwborgje 4				
Tue 2/9			Library Instru.... Zernike Library	Library Instru.... Zernike Library	Library Instru.... Zernike Library	Management Science hoorcollege Riezebos, J Collegehal Blauwborgje 4		Library Instru.... Zernike Library	Library Instru.... Zernike Library	Library Instru.... Zernike Library	Management Science PC-pract. gr.27+2.... 5415.0032	Management Science PC-pract. gr.23+2.... 5415.0032		
								Library Instru.... Zernike Library	Library Instru.... Zernike Library	Library Instru.... Zernike Library	Management Science PC-pract. gr.29+3.... 5415.0023	Library Instru.... Zernike Library		
											Management Science PC-pract. gr.01+0.... 5415.0013			

Exam management portal overview

Exams in progress

My exams

[Overview all exams](#)

Status:

☐ No Go ☒ 1. Pre Intake ☒ 2. Intake ☒ 3. Intake Processing ☒ 4. Construction ☒ 5. Test ☒ 6. First Check ☒ 7. Final Check ☒ 8. Examination ☒ 9. Wrap Up ☒ 10. Finished ☐ Hidden

From

09/24/2014

02:38 PM

To


10/20/2014

02:38 PM

Go

	Date	Start	End	Course	Name	Facilitators	Status	Progress
 	Sep 29, 2014	2:00:00 PM	4:00:00 PM		IBMG: 2.1.1 Motion and Sense I	André Rosendaal, Dineke van Es	6. First Check	<div><div></div></div>
 	Oct 3, 2014	9:00:00 AM	12:00:00 PM		GNK Zij-instroom 1.1	Engelien de Jong, Frits van Kouwenhove	5. Test	<div><div></div></div>
 	Oct 14, 2014	9:00:00 AM	10:30:00 AM		Heelkunde	Dineke van Es, Engelien de Jong	2. Intake	<div><div></div></div>
 	Oct 20, 2014	2:00:00 PM	5:00:00 PM		LRS031B10	Engelien de Jong, Dineke van Es	2. Intake	<div><div></div></div>

Exam management portal testdetails

 university of
 groningen

nestor

founded in 1614

Ireen Venema

My Nestor

Courses

Organizations

Universiteitskrant

System Admin

Library

My Career

LWX027P05

LWX027P05

DiTo is currently processing the intake form. No instructor action is currently required.



1. Pre Intake 2. Intake 3. Intake Processing 4. Construction 5. Test 6. First Check 7. Final Check 8. Examination 9. Wrap Up 10. Finished

11/9 16/9 21/9 23/9 7/10 14/10 20/10 21/10

Cancel Proceed to 4. Construction

1. Test Information

Status 3. Intake Processing

Name LWX027P05

Time Start 10/21/2014 09:00 AM End 10/21/2014 12:00 PM

2. Internal Communication

Internal Communication



Analysis

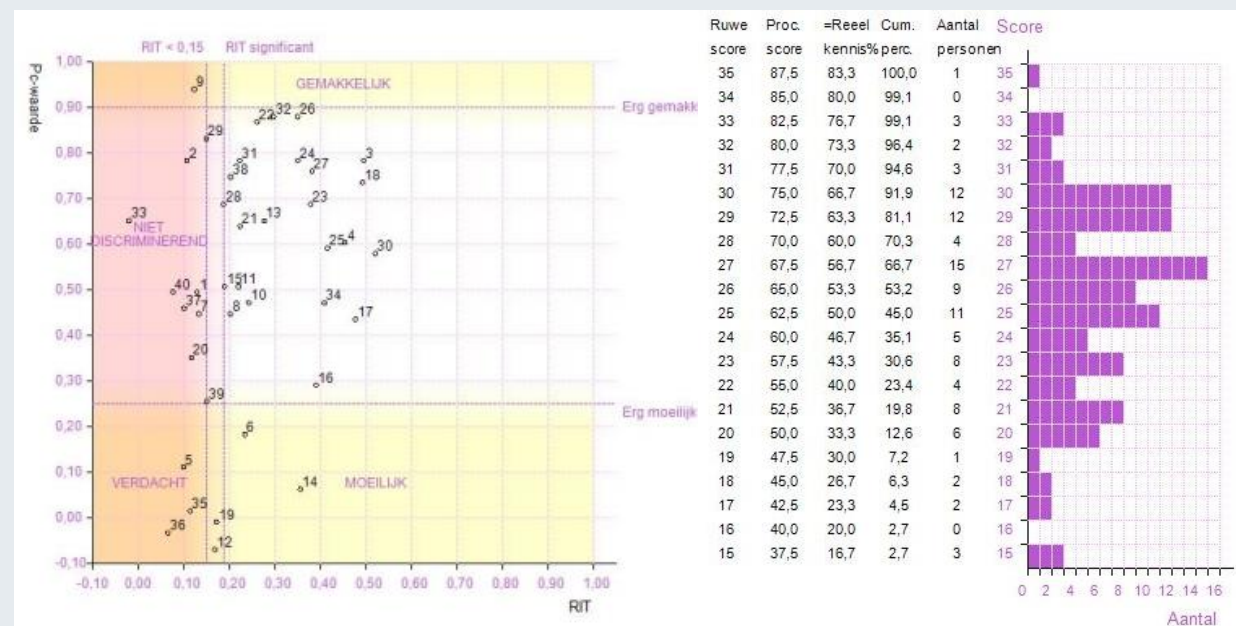


ANALYSIS

- Ratio correct/incorrect per question (p-value)
- Question score compared to total score (RIT)
- Plot with pc-value by RIT for each item
- Frequencies of distractors
- Calculate grades, based on rules of faculty/lecturer

QUALITY IMPROVEMENT

- Courses for teachers
- University Teaching Qualification program
- Research into quality of (digital) assessment



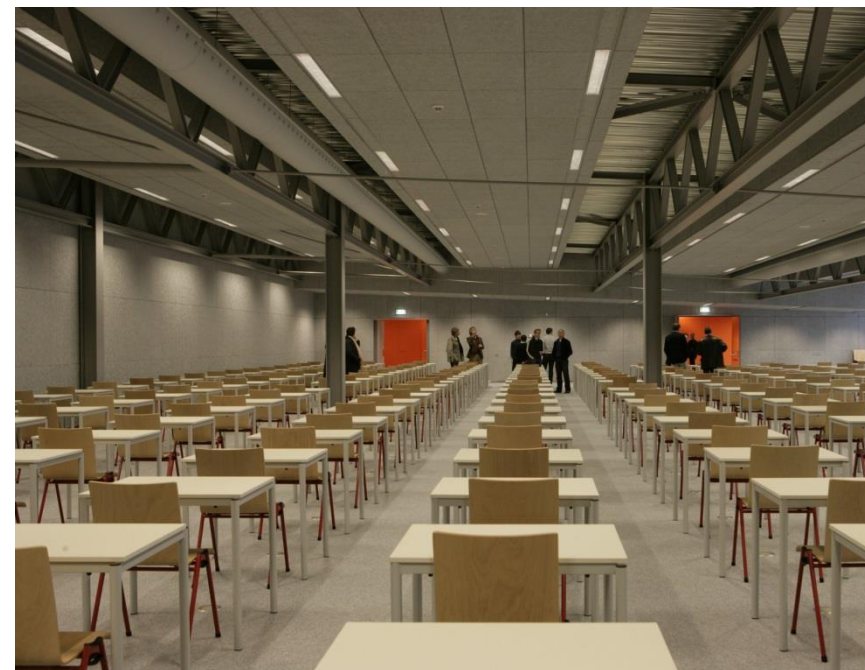
Evaluation



SURVEY AND FOCUS GROUPS

Groups of students receive survey online.

Lecturers receive survey online.



Lecturer's wishes

Have led to improvements in the assessment process (printing questions etc.).



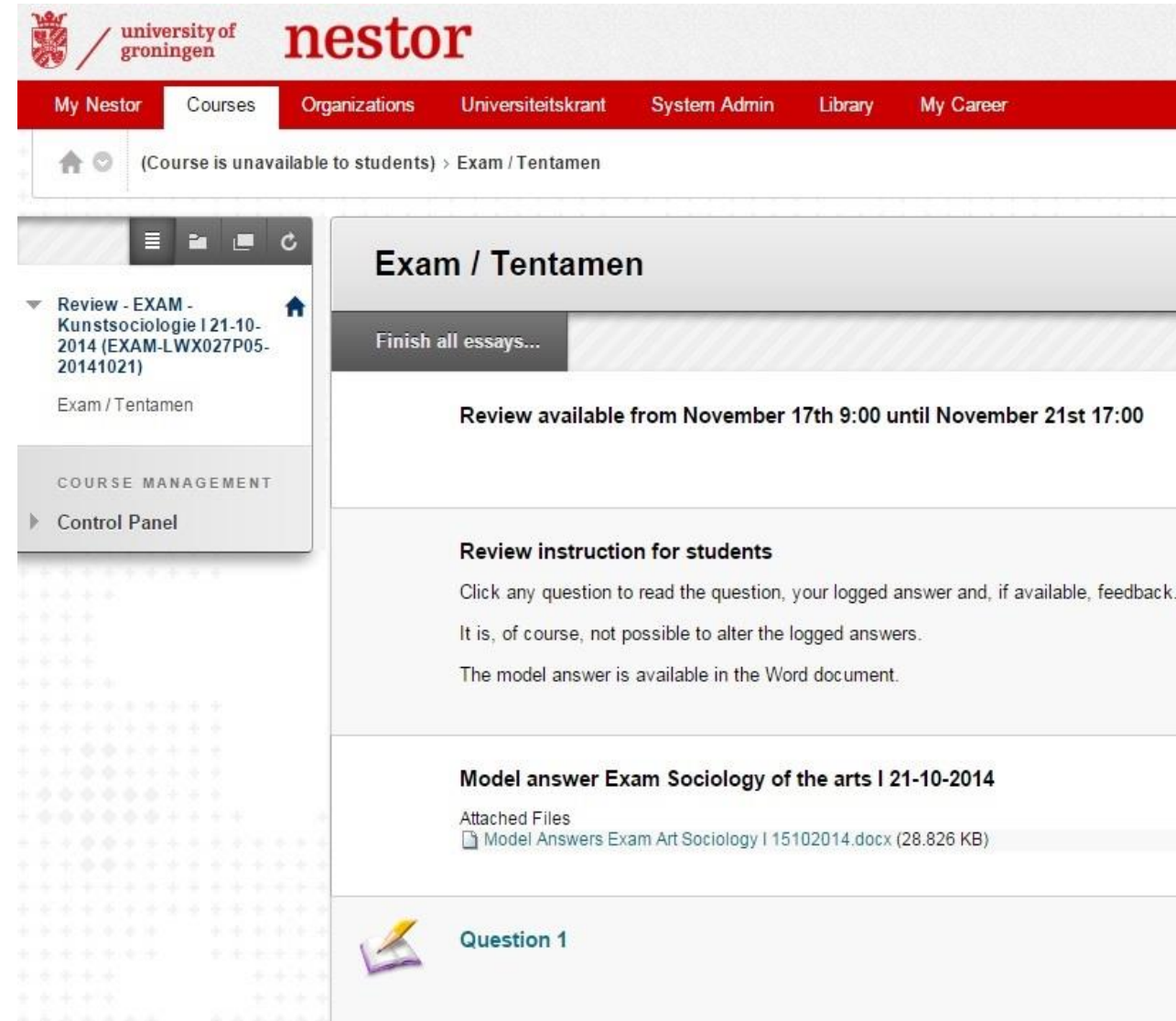
Student's wishes

Have led to improvements in the navigation during the exam and a practice test to get acquainted.

Lecturer decides which parts:

- questions
- submitted answers
- feedback
- model answer

Time restriction



The screenshot shows the Nestor system interface for the University of Groningen. The top navigation bar includes links for My Nestor, Courses, Organizations, Universiteitskrant, System Admin, Library, and My Career. The current page is titled "Exam / Tentamen" and displays a message: "(Course is unavailable to students) > Exam / Tentamen".



The main content area is titled "Exam / Tentamen" and includes a button "Finish all essays...". Below this, it states: "Review available from November 17th 9:00 until November 21st 17:00".

The "Review instruction for students" section provides the following information:

- Click any question to read the question, your logged answer and, if available, feedback.
- It is, of course, not possible to alter the logged answers.
- The model answer is available in the Word document.

The "Model answer Exam Sociology of the arts | 21-10-2014" section shows an attached file: "Model Answers Exam Art Sociology | 15102014.docx (28.826 KB)".

The bottom section is titled "Question 1" and features a notepad icon.

- Blackboard combined with SPSS, PDF & Excel  
- Other operating systems & software and flexible policies
- More exam tables and use in exam hall and more locations at UoG
- Similar exam environment anywhere in the university
- Portal for written and digital exams available to lecturers, students, exam support staff, technical support and exam officials with archive and analysis functions

Thank you for your attention.



UNIVERSITY OF GRONINGEN

DIGITAL EXAMINATION