



MASTER OF SCIENCE  
IN ENGINEERING

## **WEBINAR**

### **MSE Regular Exams Autumn 2020-21**

### **Distance/Electronic On-Site Exam Information**

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2. Timeline regular exams autumn 2020-21 (Highlights)
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4. Lecturers' tools and views
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# 1. Overview Exam Session – Information MSE RegD

## ■ Exam Session AUT20/21 ZH/WI

- **CM modules**

- ◆ Electronic distance Exam on Moodle

- **TSM and FTP Modules**

- ◆ If possible: On-site exams in Zurich/Winterthur as electronic Moodle exam or paper exam
- ◆ Fall-Back solution: Electronic distance exam on Moodle
- ◆ **An electronic Exam on Moodle as fall-back solution must be prepared in any case!**
- ◆ Recommendation in case of paper exam: Prepare paper exam as assignment on Moodle

# Overview Exam Session

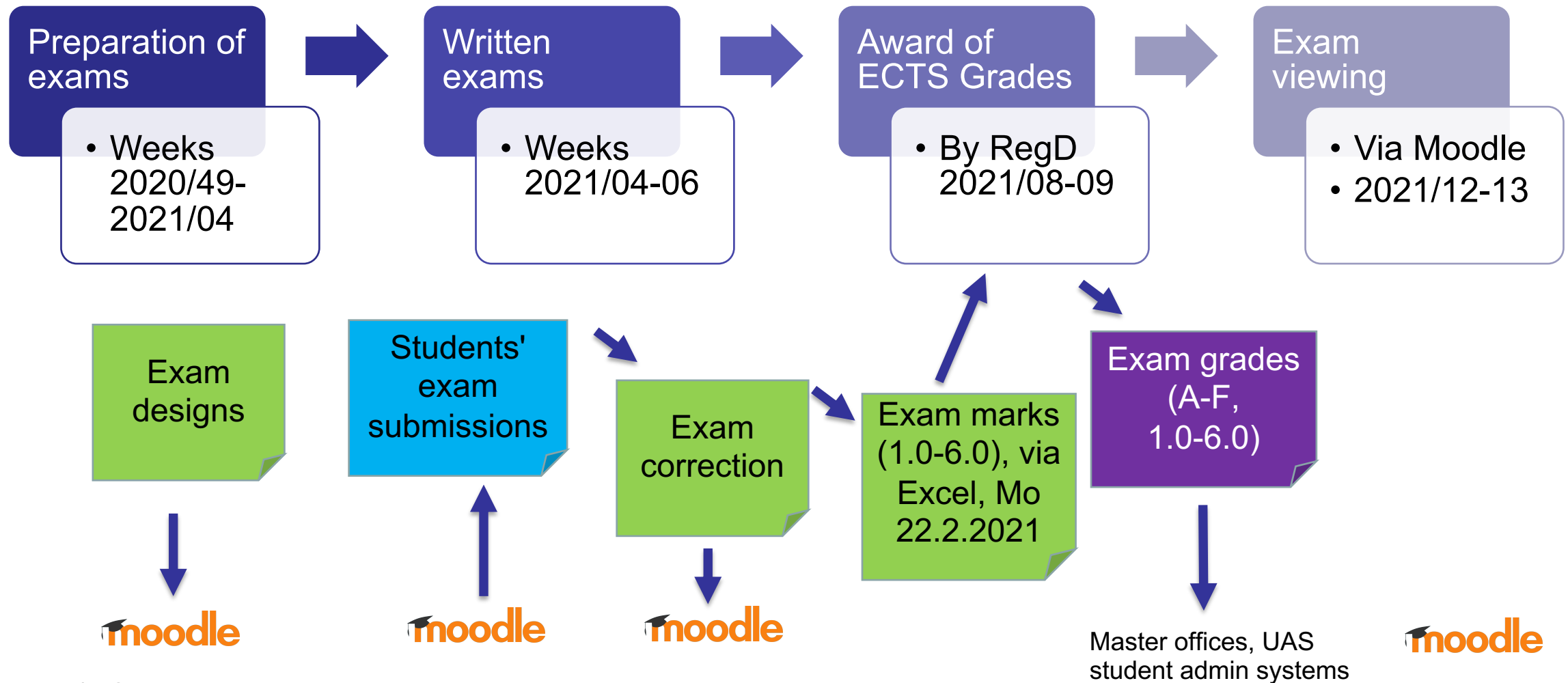
## ■ Important Links Exam Session AUT20/21 ZH/WI

- [Link](#): Status WHERE Exams take place
- [Link](#): Information for Lecturer / Exams
- [Link](#): Exam section on Moodle

- In any case of exam execution (distance or presence), **viewing of results will be distance/online on Moodle, self-service by students** (not in Master Offices as usual)
- This requires **corrections** to be available directly (e.g., using Moodle Quiz with grading) or indirectly (after uploading of individual scans of corrections of paper exams by lecturers) **on Moodle**
- **Marks will be communicated by lecturers to MSE-CH via Excel file** (on official exam enrolment list template).

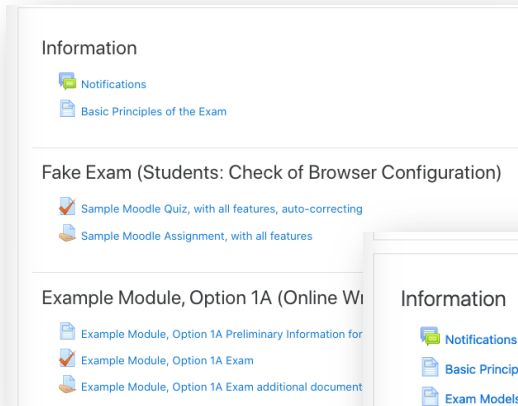
## 2. Timeline regular exams autumn 2020 (Highlights)

**Warning: Students will have access to the exam course from 26 January 2021!**

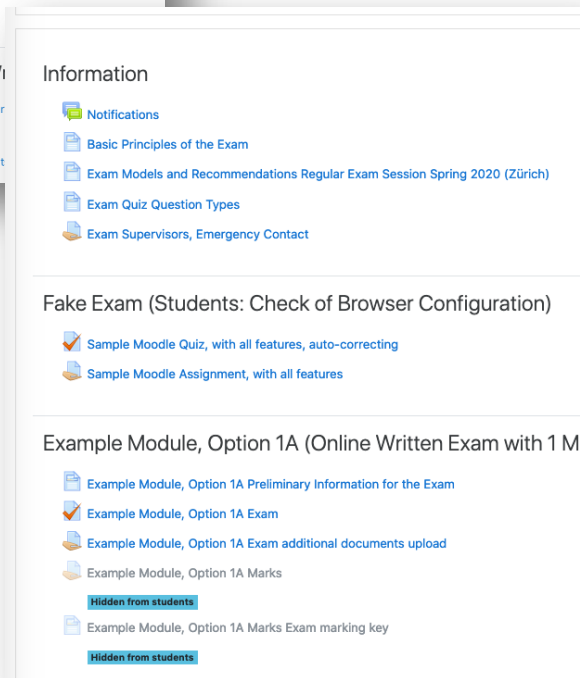


# 3. Structure of Moodle support course

## Students



## Lecturers



- Specific course for exam
- General information on top
- Manual, explicit enrolment
- One section per module
- Visibility only for students or lecturers of a module
- Lecturers can edit everything
- Students can always view preliminary information; exam elements are only accessible during exam (submit) or during exam viewing session

# Features of Exam Models 1 (Quiz), 2 (1 Assignment), 3 (2 Assignments) and 4 (Quiz + 1 Assignment)

## Example MODULE\_1 (Model 1)

**Restricted** Not available (hidden) unless any of:

- You belong to **TSM\_MODULE\_1**
- You belong to **Stud-TSM\_MODULE\_1**

 Example Module 1, Preliminary Information for the Exam

 Example Module 1, Exam quiz

 Example Module 1, Exam additional documents upload

 Example Module 1, Exam marking key

**Hidden from students**

## Example MODULE\_2 (Model 2)

 Example Module 2, Preliminary Information for the Exam

 Example Module 2, Assignment

 Example Module 2, Exam marking key

**Hidden from students**

## Example MODULE\_3 (Model 3)

 Example Module 3, Preliminary Information for the Exam

 Example Module 3, Assignment A

 Example Module 3, Assignment B

 Example Module 3, Exam marking key

**Hidden from students**

## Example MODULE\_4 (Model 4)

 Example Module 4, Preliminary Information for the Exam

 Example Module 4, Exam quiz

 Example Module 4, Assignment

 Example Module 4, Exam marking key

**Hidden from students**

# 4. Lecturers' tools + views – Moodle Quiz (Models 1,4)

## Editing the quiz contents

Editing quiz: Example Module, Option 1A Exam

You cannot add or remove questions because this quiz has been attempted. (Attempts: 2)

Questions: 12 | This quiz is open Maximum grade 120.00

Repaginate  Total of marks: 60.00

Shuffle

Page 1

1 Question 1 \_Introducing Strategic Management\_ Netflix was launched on April 14, 1998 with only 30 employees and 925 DVDs availabl...

1 Question 1.1 Analyse the business model of Netflix by applying the business strategy diamond model. (20 marks)

Page 2

2 Question 2 Leading strategically through effective vision and mission Zürich Airport (IATA: ZRH) is the largest international airport of S...

2 Question 2.1 Identify the main stakeholders of Zürich Airport.

Page 3

3 Question 2.2 Map the level of influence of Zürich Airport on each stakeholder against the level of influence of each stakeholder on Zü...

Page 4

4 Question 2.3 Who are the playmakers Zürich Airport should focus on?

Page 5

5 Question 3 \_Creating Business Strategies\_ Mercedes-Benz has launched a fancy baby stroller named Avantgarde. The family owne...

5 Question 3.1 Is Mercedes-Benz following an innovation or an imitation strategy with the Avantgarde? Explain

## Editing a quiz question

Editing an Essay question

**General**

Current category Standard für TSM\_AdvTopics1 Exam (12)

Save in category Standard für TSM\_AdvTopics1 Exam (12)

Question name Question 2.1

Question text

Identify the main stakeholders of Zürich Airport.

Default mark 1

General feedback

## Grading the student submissions (overview)

Example Module, Option 1A Exam

Questions that need grading

[Also show questions that have been graded automatically](#)

Q #	T	Question name	To grade	Already graded
1		Question 1.1	2 grade	0
2		Question 2.1	1 grade	0
5		Question 3.1	1 grade	0
6		Question 3.2	1 grade	0
7		Question 3.3	1 grade	0

## Reviewing student submissions, commenting

Attempt number 1 for Teststudent1 MSE

Question 1 Complete

Marked out of 20.00

12 out of 20.00

Comment

Identify the main stakeholders of Zürich Airport.

Answer: asdf



# Moodle Quiz: Organisation of Questions in Sections

Regular Exams Spring 2020 Zurich

The screenshot shows a Moodle quiz completion page. The top section displays the quiz status: 'Begonnen am' (Tuesday, 23. Juni 2020, 09:07), 'Status' (Beendet), 'Beendet am' (Tuesday, 23. Juni 2020, 11:07), 'Verbrauchte Zeit' (2 Stunden), and 'Bewertung' (99,00 von 120,00 (83%)). A feedback message reads: 'Thank you very much for submitting the TSM\_BusStrat quiz!!'. Below this, there is a notice about uploading documents and a thank you message in German: 'Vielen Dank für das Einreichen des TSM\_BusStrat-Quiz!'. The bottom section shows 'Question 1: (20 marks)' with the title 'Introducing Strategic Management' and an image of a Shell electric vehicle charging station. The text of the question discusses the demand for electricity and the challenges faced by established power utilities.

The screenshot shows the Moodle quiz navigation panel. It lists seven questions with their respective progress indicators. Question 1 is highlighted in orange, indicating it is the current question. Question 2 is highlighted in green, indicating it is completed. Question 3 is highlighted in red, indicating it is not yet started. Question 4 is highlighted in green, indicating it is completed. Question 5 is highlighted in red, indicating it is not yet started. Question 6 is highlighted in orange, indicating it is the current question. Question 7 is highlighted in green, indicating it is completed. The panel also includes a 'Seiten einzeln anzeigen' (Show questions individually) link and an 'Überprüfung beenden' (End test) link.

(View: exam viewing mode)

Section title

Description

Essay questions (manually graded)

Set of MC questions (automatically graded; random choice taken from question category)

# Moodle Quiz: Mix of Open (Essay) and Closed Questions

Question 6  Shuffle

Page 18

**Q6.0-Description** QUESTION 6: (20 MARKS) \_Corporate Strategies\_ [Meyer Burger Building] NEW STRATEGY ANNOUNCEMENT "Meyer Burger, the Thun-based solar supplier, has its back to the ...

Page 19

**Q6.1 (8 marks)** What are the advantages for MeyerBurger to build a manufacturing site in Germany? Contrast it with the idea of building a factory in mainland China, considering the distance as de... 8.00

Page 20

**Q6.2 (2 marks)** Generally speaking: is it a management error that the company takes on a new strategy? Or is it normal (and the duty of management teams) that companies come out with new str... 2.00

Page 21

**Q6.3 (2 marks)** How do you qualify the intention of MeyerBurger to set up an own manufacturing - is this, e.g., a "diversification" strategy? (2 marks) 2.00

Page 22

**Q6.4 (4 marks)** What is different, in your eyes, between the 3S integration strategy (in 2010) and the decision to go into manufacturing (in 2020)? (4 marks) 4.00

Page 23

**Q6.5 (4 marks)** \_"Certain blocks of shares could already be sold to large investors before such a classic capital increase. Meyer Burger would then carry out a so-called private placement. The rest..." 4.00

Question 7: Mixed Pickles  Shuffle

Page 24

**Mixed Pickles** MIXED PICKLES Answer to the following short questions from all domains of the corporate strategy course part!

**Zufall (MC-Questions)** (See questions) 1.00

**Zufall (MC-Questions)** (See questions) 1.00

Page 25

**Zufall (MC-Questions)** (See questions) 1.00

**Zufall (MC-Questions)** (See questions) 1.00

# Moodle Quiz Start Screen (Self-Declaration, Info)

## Regular Exams Autumn 2020-21 Zurich Winterthur

[Home](#) / [Courses](#) / [MSE-CH Coordination](#) / [Exams](#) / [RegularExamAUT20\\_21-Zurich\\_Winterthur](#) / [Example MODULE\\_1 \(Model 1\)](#) / [Example Module 1, Exam quiz](#)

### Example Module 1, Exam quiz

#### Technical notes:

1. **Your responses in this quiz will be saved on the server whenever an option is changed, and then after 1 minute. If you have a very unstable internet connection, you can force saving on the server by going forward to another question, then coming back.**
2. **Take the countdown seriously. Once the time runs out (and every second counts), your attempt will be submitted automatically, normally without loss. To be on the safe side, submit your attempt in time, latest before the time runs out.**

#### By submitting this test I confirm that:

- I am the person taking the exam according to accurate registration;
- I have only used the permitted aids for the examination;
- The submitted assessment is genuinely my work and I am the sole author of all exam answers;
- I accept that the assessment will be checked for plagiarism and stored electronically by the MSE until the end of the appeal period;
- I agree not to discuss or disclose information about the assessment such as exam questions or answers, in whole or in part, in any form or by any means (orally, in writing, in any other media, in any internet forums or otherwise) to any third party or provide any third party access to the exam;
- I am aware that I will be penalised or disqualified if a charge of plagiarism or other fraud on the assessment is upheld;
- I understand that any case of plagiarism or other fraud will at least lead to an insufficient grade (F) and count as a failed exam attempt.

#### Technische Hinweise:

1. **Ihre Antworten in diesem Quiz werden auf dem Server gespeichert, sobald Sie eine Antwortoption verändern, dann nach jeweils 1 Minute. Falls Sie eine sehr instabile Internetverbindung beobachten, können Sie das Speichern auf dem Server erzwingen, indem Sie zu einer anderen Frage weitergehen und dann wieder zurückkommen.**
2. **Nehmen Sie den Countdown ernst. Sobald die Zeit abgelaufen ist (und jede Sekunde zählt), wird Ihr Versuch automatisch beendet und ein letztes Mal übertragen, normalerweise ohne Datenverlust. Um ganz sicher zu gehen, reichen Sie Ihren Versuch rechtzeitig ein, vor Ablauf der Zeit.**

#### Ich bestätige, dass ich bei der Testabgabe am Ende:

- die Person bin, die regelgerecht für diese Prüfung eingeschrieben ist;
- nur die erlaubten Prüfungshilfsmittel verwendet habe;
- die übermittelte Prüfung eigenständig von mir bearbeitet wurde und ich alle Prüfungsantworten alleine verfasst habe;
- ich akzeptiere, dass die Prüfung auf Plagiat überprüft wird und elektronisch vom MSE bis Ende der Rekursfrist gespeichert wird;
- Ich mich verpflichte, keine Informationen über die Prüfung zu verbreiten oder offenzulegen wie Prüfungsfragen oder –antworten, teilweise oder vollständig, auf jegliche Weise (mündlich, schriftlich, in anderen Medien oder Internetforen oder auf andere Arten) an Drittpersonen und Drittpersonen keinen Zugriff auf die Prüfung gewähren werde;
- mir bewusst ist, dass ich bestraft oder disqualifiziert werde, falls ein Plagiat oder ein anderer Betrugsversuch bei meiner Prüfung festgestellt wird;
- ich verstehe, dass ich im Fall eines Plagiats oder eines anderen Betrugsversuchs zumindest eine ungenügende Note (F) erhalte und der Prüfungsversuch als nicht-bestanden zählen wird.

Attempts allowed: 1

The quiz will not be available until Saturday, 20 March 2021, 9:00 AM

Time limit: 2 hours

# Moodle Quiz Extension: Additional Document Submission (after Closing of Quiz)

## Example Module 1, Exam additional documents upload



**Immediately AFTER the exam**, you CAN OPTIONALLY upload the following documents here (within 30 minutes, max. 20 files): really important hand-written notes or other documents you would like to be considered by lecturers. Or you can hand in comments to specific questions.

*Unmittelbar NACH der Prüfung können Sie hier OPTIONAL (innerhalb von 30 Minuten, max. 20 Dateien) folgende Dokumente hochladen: wirklich wichtige handschriftliche Notizen oder andere Dokumente, die von den Dozenten berücksichtigt werden sollen. Oder Sie können Bemerkungen zu bestimmten Fragen/Antworten hier ergänzen.*

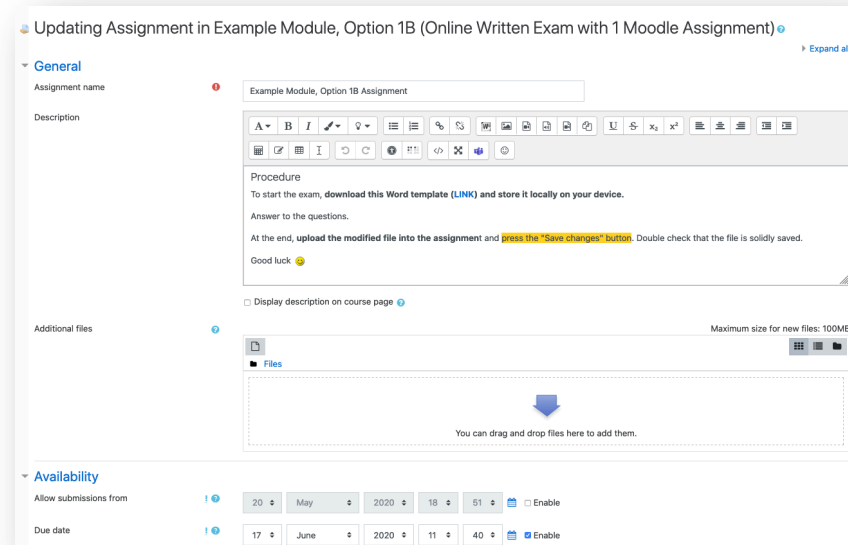
### Grading summary

Hidden from students	No
Participants	1
Submitted	1
Needs grading	1
Due date	Wednesday, 17 June 2020, 11:40 AM
Time remaining	Assignment is due

[View all submissions](#)[Grade](#)

# 4. Lecturers' tools + views – Assignment (Models 2,3,4)

## Editing the assignment text



Updating Assignment in Example Module, Option 1B (Online Written Exam with 1 Moodle Assignment)

**General**

Assignment name: Example Module, Option 1B Assignment

Description: Procedure  
To start the exam, download this Word template (LINK) and store it locally on your device.  
Answer to the questions.  
At the end, upload the modified file into the assignment and press the "Save changes" button. Double check that the file is solidly saved.  
Good luck 😊

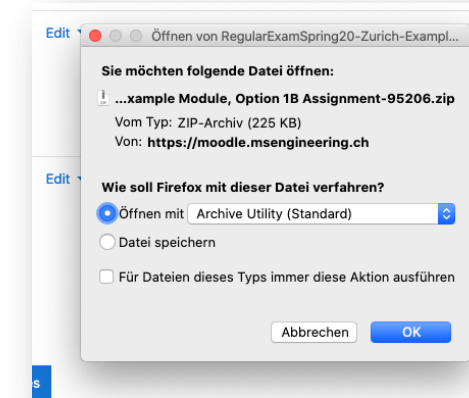
Additional files: You can drag and drop files here to add them.

**Availability**

Allow submissions from: 20 May 2020, 18:51

Due date: 17 June 2020, 11:40

## Downloading all submissions as a ZIP file



Sie möchten folgende Datei öffnen:

...xample Module, Option 1B Assignment-95206.zip  
Vom Typ: ZIP-Archiv (225 KB)  
Von: <https://moodle.mengineering.ch>

Wie soll Firefox mit dieser Datei verfahren?

Öffnen mit Archive Utility (Standard)

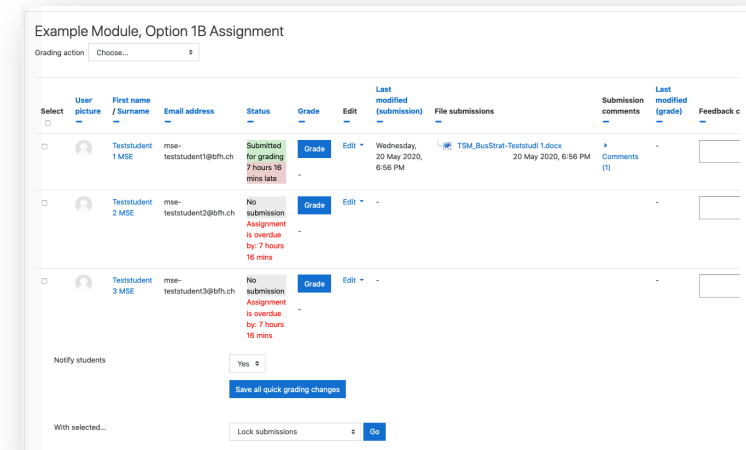
Datei speichern

Für Dateien dieses Typs immer diese Aktion ausführen

Abbrechen OK

## Entering students' marks (1.0 – 6.0, 1 decimal place)

## Student submissions (overview)



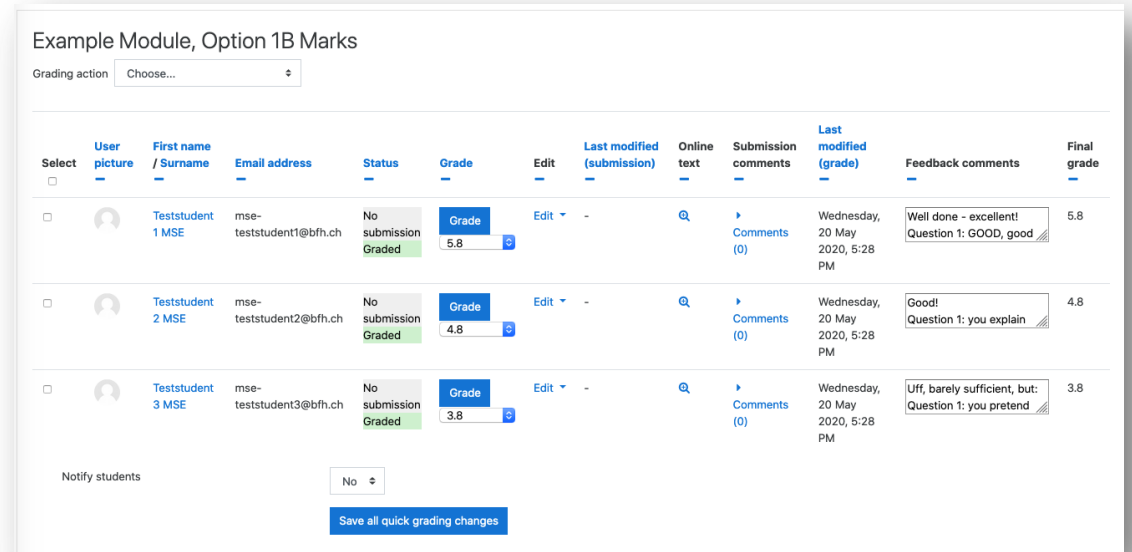
Example Module, Option 1B Assignment

Select	User picture / Surname	Email address	Status	Grade	Edit	Last modified (submission)	File submissions	Submission comments	Last modified (grade)	Feedback comments
<input type="checkbox"/>		Teststudent 1 MSE	Submitted for grading 7 hours 16 mins late	Grade	Edit	Wednesday, 20 May 2020, 6:56 PM	TSM_BusStrat-Teststud1.docx	Comments (1)		
<input type="checkbox"/>		Teststudent 2 MSE	No submission	Grade	Edit					
<input type="checkbox"/>		Teststudent 3 MSE	No submission	Grade	Edit					

Notify students: Yes

Save all quick grading changes

With selected... Lock submissions



Example Module, Option 1B Marks

Select	User picture / Surname	Email address	Status	Grade	Edit	Last modified (submission)	Online text	Submission comments	Last modified (grade)	Feedback comments	Final grade
<input type="checkbox"/>		Teststudent 1 MSE	No submission	Grade 5.8	Edit			Comments (0)	Wednesday, 20 May 2020, 5:28 PM	Well done - excellent! Question 1: GOOD, good	5.8
<input type="checkbox"/>		Teststudent 2 MSE	No submission	Grade 4.8	Edit			Comments (0)	Wednesday, 20 May 2020, 5:28 PM	Good! Question 1: you explain	4.8
<input type="checkbox"/>		Teststudent 3 MSE	No submission	Grade 3.8	Edit			Comments (0)	Wednesday, 20 May 2020, 5:28 PM	Uff, barely sufficient, but: Question 1: you pretend	3.8

Notify students: No

Save all quick grading changes

# Moodle Assignment: Typical Start Screen

## Example Module 2, Assignment

Procedure

To start the exam, download the ... file and work out the problems contained therein.

At the end, **upload your solution in PDF form** by pressing "Edit submission", then press the **"Save changes" button**. Double check that the file is solidly saved.


**Due date: as published on submission page, LAST upload possibility is 15 minutes after due date (sharp)!**

Conditions

**By submitting this test I will confirm that:**

- I am the person taking the exam according to accurate registration;
- I have only used the permitted aids for the examination;
- The submitted assessment is genuinely my work and I am the sole author of all exam answers;
- I accept that the assessment will be checked for plagiarism and stored electronically by the MSE until the end of the appeal period;
- I agree not to discuss or disclose information about the assessment such as exam questions or answers, in whole or in part, in any form or by any means (orally, in writing, in any other media, in any internet forums or otherwise) to any third party or provide any third party access to the exam;
- I am aware that I will be penalised or disqualified if a charge of plagiarism or other fraud on the assessment is upheld;
- I understand that any case of plagiarism or other fraud will at least lead to an insufficient grade (F) and count as a failed exam attempt.

Good luck 😊

 [Preliminary\\_information\\_students\\_AUT20\\_21\\_EN\\_v6.docx](#) 2 December 2020, 7:54 AM

### Grading summary

Hidden from students	Yes
Participants	1
Submitted	0
Needs grading	0
Due date	Wednesday, 17 March 2021, 11:40 AM
Time remaining	105 days 3 hours

# Pro/Con Moodle Quiz or Assignment

## Quiz

- Choose if automated correction required (closed questions)
- Essay questions available (text, with template, pure upload)
- May contain sections (e.g. for exam parts A and B)
- Work directly in Moodle (online), electronic collaboration possible
- Export of complete quiz to Word document is possible using the "handout" quiz report (with limits)
- Personalisation relatively easy
  - Random questions ("m out of "n")

## Assignment

- Plain replacement of paper exam
- Upload of exam file last second before start is possible (security)
- Robust (still works, e.g., if Moodle down)
- Can be personalised, but with higher cost
  - 1 assignment per sub-group
  - 1 exam file per student, all files in single ZIP to download
  - etc.

# 5. Students' tools and views

Fake exams for checking browser configuration

Fake Exam (Students: Check of Browser Configuration)

- ✓ Sample Moodle Quiz, with all features, auto-correcting
- 📄 Sample Moodle Assignment, with all features

All Question types in a demo

SAMPLE Multiple choice question

Calculate the derivative of  $x^4 \cdot \sin(x)$

Select one:

- $4 \cdot x \cdot (\sin(x) + \cos(x))$
- $x^3 \cdot (4 \cdot \sin(x) + x \cdot \cos(x))$
- $4 \cdot x^3 \cdot (\sin(x))$
- $x^3 \cdot (4 \cdot \sin(x))$

LaTeX formulae

## Exam viewing (quiz)

Started on: Wednesday, 20 May 2020, 2:50 PM  
State: Finished  
Completed on: Wednesday, 20 May 2020, 2:51 PM  
Time taken: 1 min  
Grade: 10.00 out of 120.00 (8%)

Feedback: Thank you very much for submitting!! This is only a test quiz, grading is automatically processed and you find the results right here. In a "real" exam, you would not normally see any marks/grade right now, as grading will be up to lecturers. The exam results will be visible for you only later, during exam insight.

Question 1: Not answered, Marked out of 10.00. Flag question. SAMPLE Calculated question. Compute the surface of a triangle with side lengths of: a = 16 cm, b = 6 cm, angle  $\alpha$  between a and b = 33 degrees. Round your answer to 2 decimal places, if required. Answer:  x

Check <https://www.mathopenref.com/triangleareas.html>  
The correct answer is: 26.14

Question 2: Not answered, Marked out of 10.00. Flag question. SAMPLE Calculated multichoice question. Calculate the area of a rectangle where l = 2 cm and h = 6 cm. Select one:  
 The rectangle's area is 14 square cm.  
 The rectangle's area is 12 square cm.

Quiz navigation: 1-14 (11 selected), Finish review.

Auf moodle.msengineering.ch wird Folgendes angezeigt:  
That functionality is currently disabled

Ok

Javascript Copy-Paste Blocker (against mass cheating)



## 6. Support: Superusers

See <https://moodle.msengineering.ch/mod/page/view.php?id=114260>

- On Moodle / exam area / information you can find many tips and tricks to help you setting up your online exam on Moodle.
- In addition each UAS has nominated Moodle **Superusers**. You can contact the Superusers of your UAS if you cannot find a solution to a problem.

UAS	Name	E-Mail	Phone
BFH	Michael Röthlin	<a href="mailto:michael.roethlin@bfh.ch">michael.roethlin@bfh.ch</a>	+41 32 321 63 17
FHGR	Judith Hüther	<a href="mailto:moodle@fhgr.ch">moodle@fhgr.ch</a>	+41 81 286 38 53
FHNW	Paul Raper	<a href="mailto:paul.raper@fhnw.ch">paul.raper@fhnw.ch</a>	+41 56 202 81 71 +41 79 263 93 62
FHO	Frank Koch	<a href="mailto:frank.koch@ost.ch">frank.koch@ost.ch</a>	+41 58 257 45 99
	Rainer Schaufelberger	<a href="mailto:rainer.schaufelberger@ost.ch">rainer.schaufelberger@ost.ch</a>	+41 58 257 49 70
HES-SO	Philippe Passeraub	<a href="mailto:philippe.passeraub@hes-so.ch">philippe.passeraub@hes-so.ch</a>	+41 58 900 00 82
HSLU	Sascha Götte	<a href="mailto:sascha.goette@hslu.ch">sascha.goette@hslu.ch</a>	+41 41 349 35 24
SUPSI	Ivan Defilippis	<a href="mailto:ivan.defilippis@supsi.ch">ivan.defilippis@supsi.ch</a>	+41 58 666 65 38
	Riccardo Mazza	<a href="mailto:riccardo.mazza@supsi.ch">riccardo.mazza@supsi.ch</a>	+41 76 560 55 46 +41 58 6666505
ZHAW	Reto Knaack	<a href="mailto:knaa@zhaw.ch">knaa@zhaw.ch</a>	+41 58 934 74 60

# Thank you

Michael Röthlin, [michael.roethlin@bfh.ch](mailto:michael.roethlin@bfh.ch)