Badges

Issue

Earn

Display

Understand/ Verify

Teachers

- **Create Course Badges/activity completion**
- Add Competency Framework
- Import competency frameworks
- Create Scale
- Add /link Competencies to courses
- Add/link Competencies to activities
- Linking Competencies with Badges
- Create learning plans

Students

- Earn badges through activity completion
- Download badges/ connect to backpack
- Share badges
- Complete competencies
- Earn badges through competencies
- Attach evidence /students
- Review manual evidence/teachers
- Review automated evidence/teachers

- University
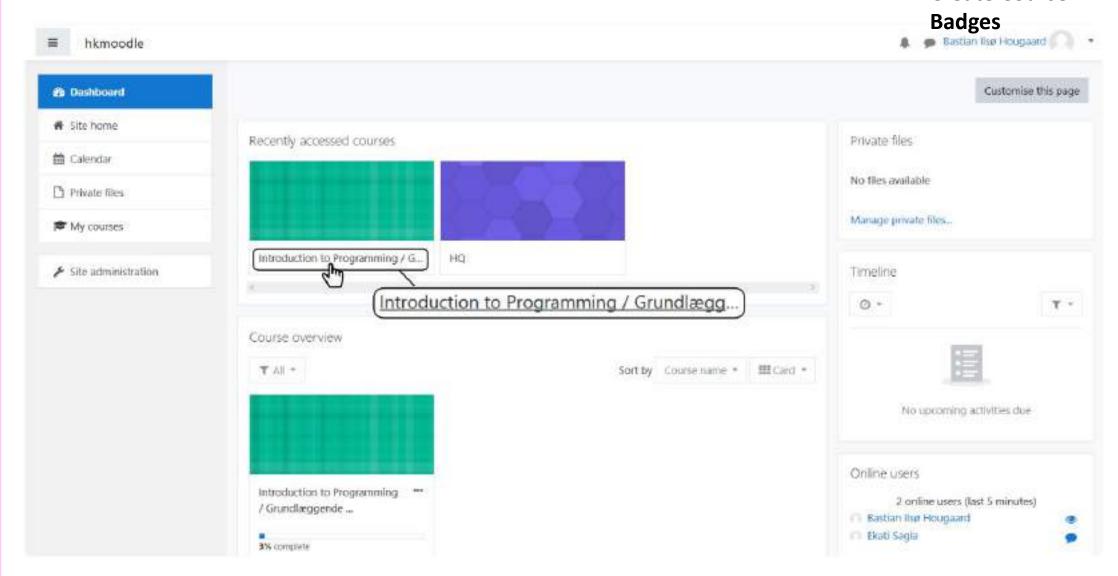- School
- Company

Issue Badges to..

- Students
- Learners

Badges:

- recognize **achievements**
- build **pathways** to work towards learning goals
- way to **identify talent** based on competency and attitude
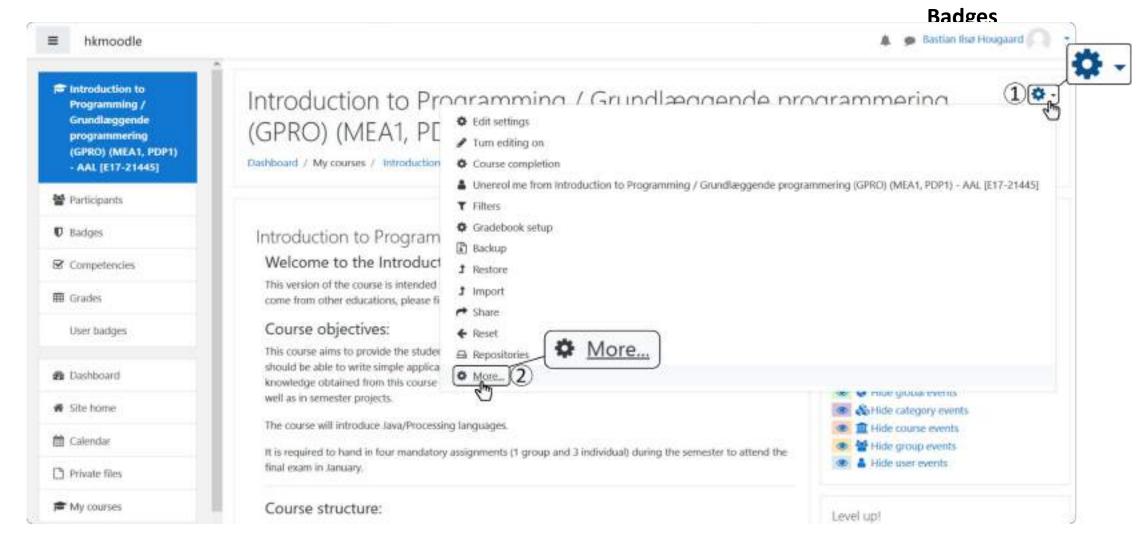- validation for **skills** and **achievements**.

Issue badges through:
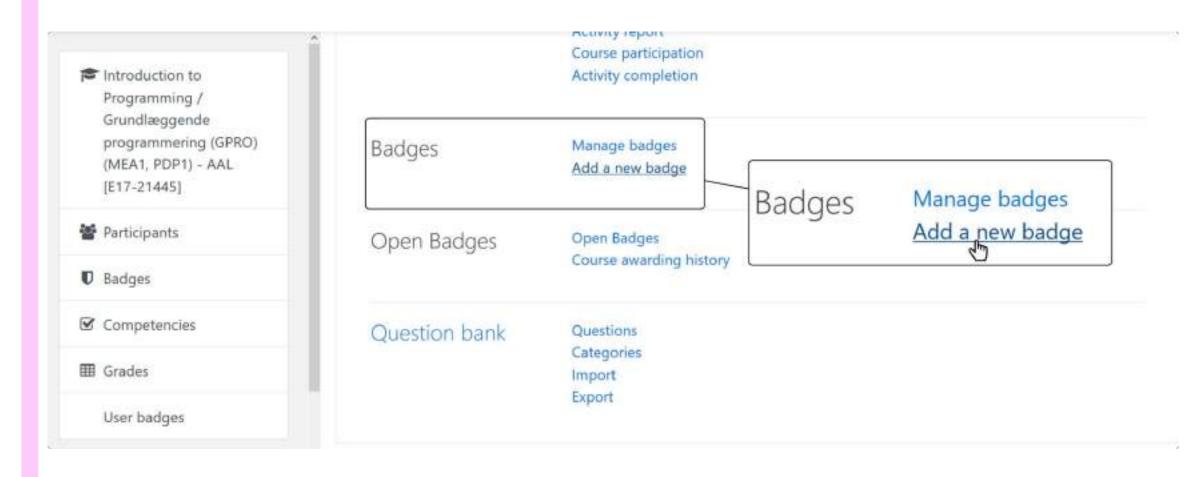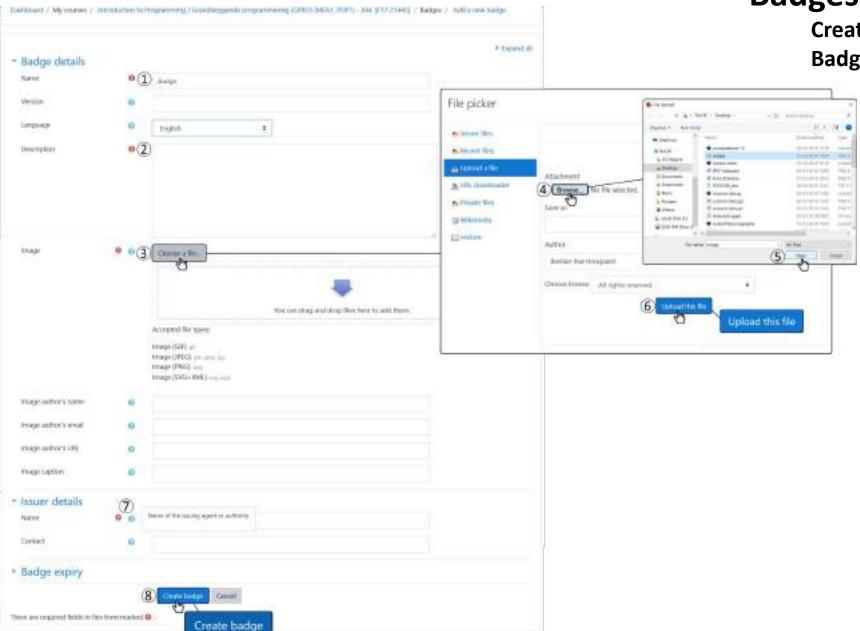
- Activity/course completion
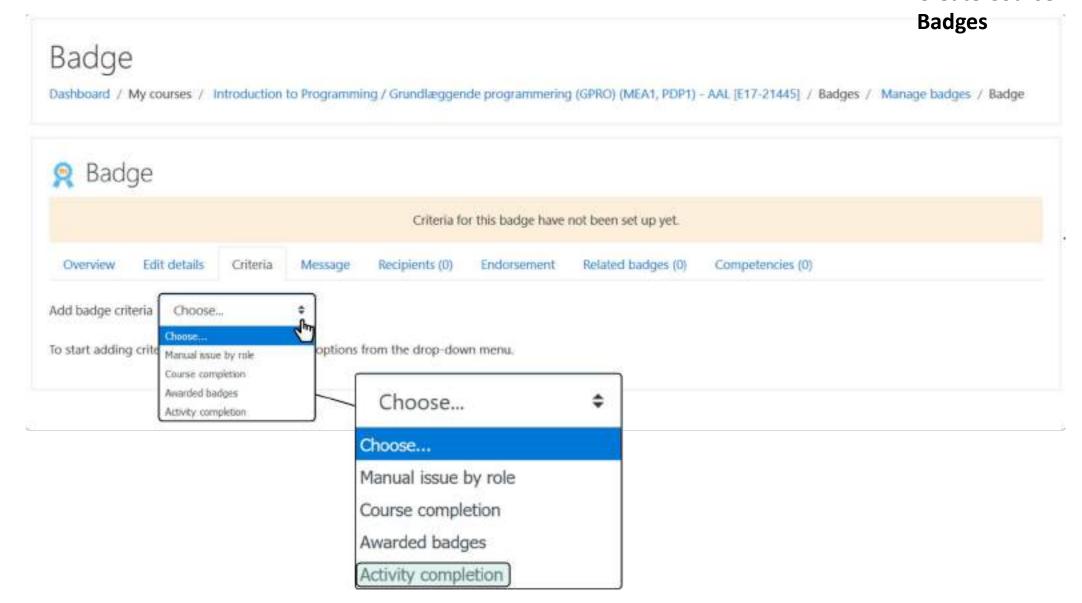- Competencies

Badges in Moodle

Create Course Badges

Badges in Moodle
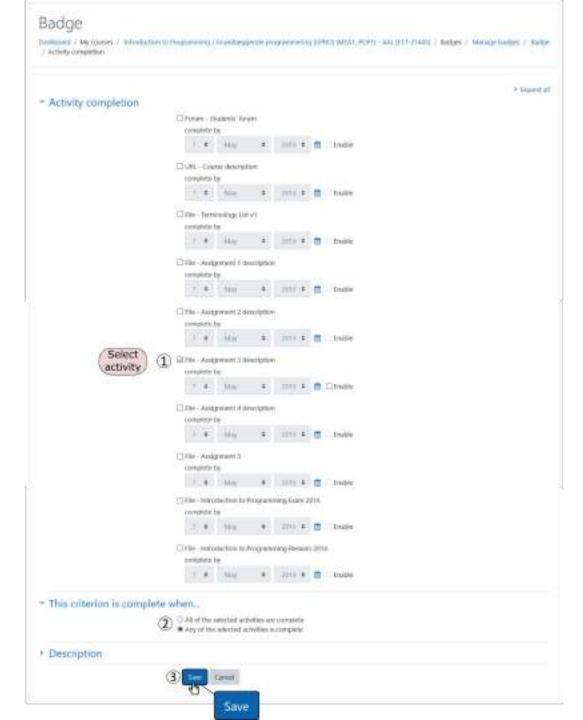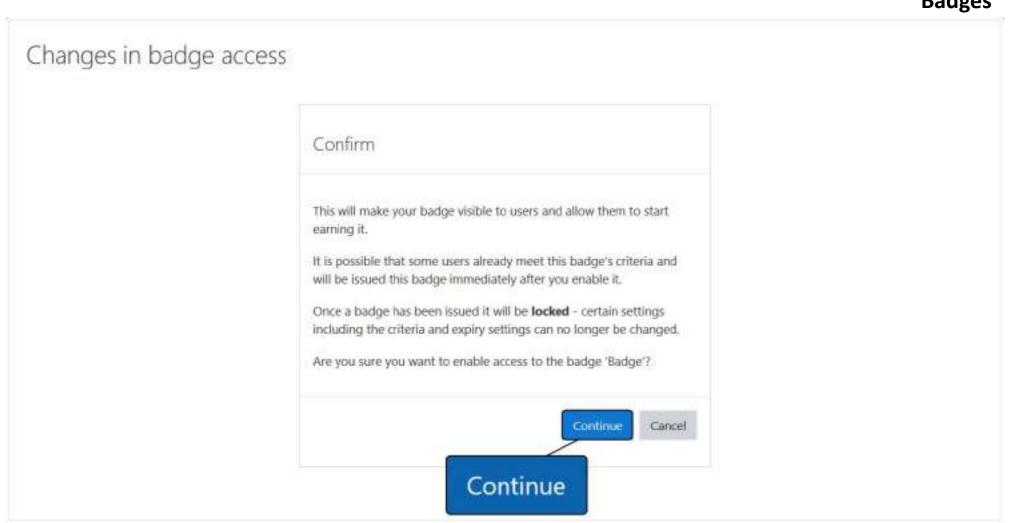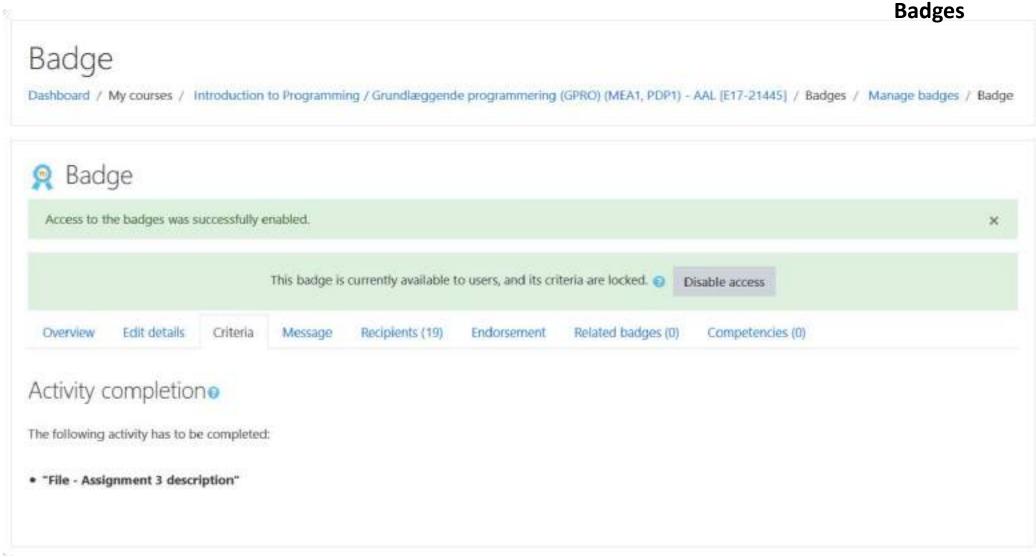
Create Course Badges

Badge

Badge criteria successfully created   ✕

This badge is currently not available to users. Enable access if you want users to earn this badge. ⊘   Enable access

Enable access

| Overview | Edit details | Criteria | Message | Recipients (0) | Endorsement | Related badges (0) | Competencies (0) |

Add badge criteria   Choose... ⇕

⚙ 🗑

Activity completion⊘

The following activity has to be completed:

- **"File - Assignment 3 description"**

Changes in badge access

Confirm

This will make your badge visible to users and allow them to start earning it.

It is possible that some users already meet this badge's criteria and will be issued this badge immediately after you enable it.

Once a badge has been issued it will be **locked** - certain settings including the criteria and expiry settings can no longer be changed.

Are you sure you want to enable access to the badge 'Badge'?

Continue   Cancel

Continue

Badge

Dashboard / My courses / Introduction to Programming / Grundlæggende programmering (GPRO) (MEA1, PDP1) - AAL [E17-21445] / Badges / Manage badges / Badge

Badge

Access to the badges was successfully enabled.   ✕

This badge is currently available to users, and its criteria are locked. ❓ [Disable access]

Overview   Edit details   Criteria   Message   Recipients (19)   Endorsement   Related badges (0)   Competencies (0)

Activity completion❓

The following activity has to be completed:

• "File - Assignment 3 description"

Teachers	Students
● Create Course Badges/activity completion	● Earn badges through activity completion
● **Add Competency Framework**	● Download badges/ connect to backpack
● Import competency frameworks	● Share badges
● Create Scale	● Complete competencies
● Add /link Competencies to courses	● Earn badges through competencies
● Add/link Competencies to activities	● Attach evidence /students
● Linking Competencies with Badges	● Review manual evidence/teachers
● Create learning plans	● Review automated evidence/teachers

Competencies in Moodle
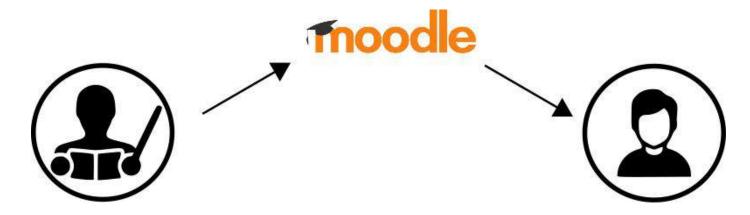
Within Moodle, a **competency** describes the level of understanding or proficiency of a learner in a certain subject related skill.

Source: https://docs.moodle.org/36/en/Competencies

A **competency framework** is an organized collection of competencies.

Teachers can:
- Define competencies
- Organise competencies in **competency frameworks**
- Create, import and export **competency frameworks**
- Add competencies in **courses** and **activities**
- Link competencies with **Badges**
- Add competencies to a **learning plan**
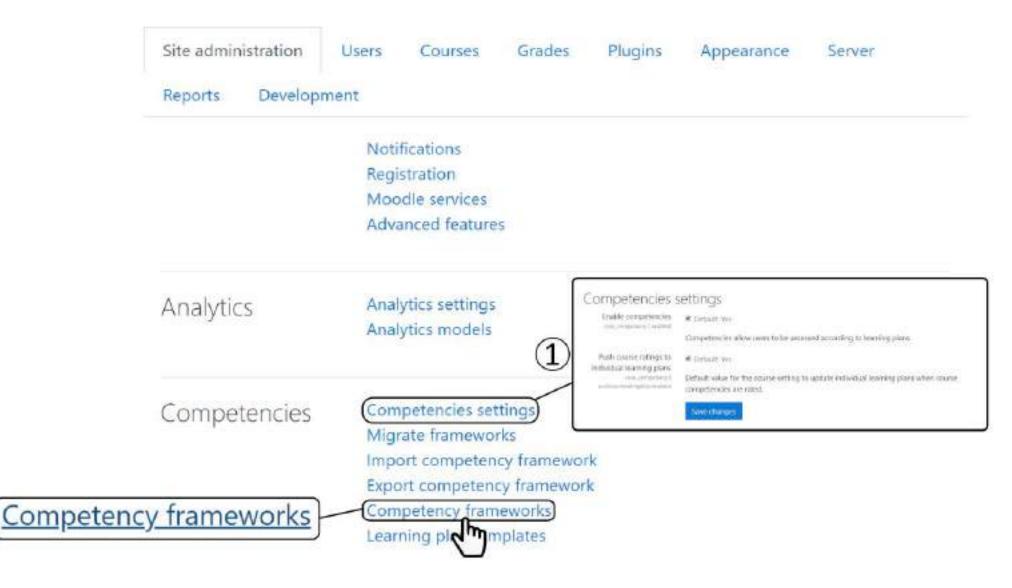- Manually rate course competencies

Students can:
- See available competencies in **courses** or **activities**
- Obtain competencies
- Get awarded with a **badge** within a competency
- Attach **evidence** for the competency if it is required
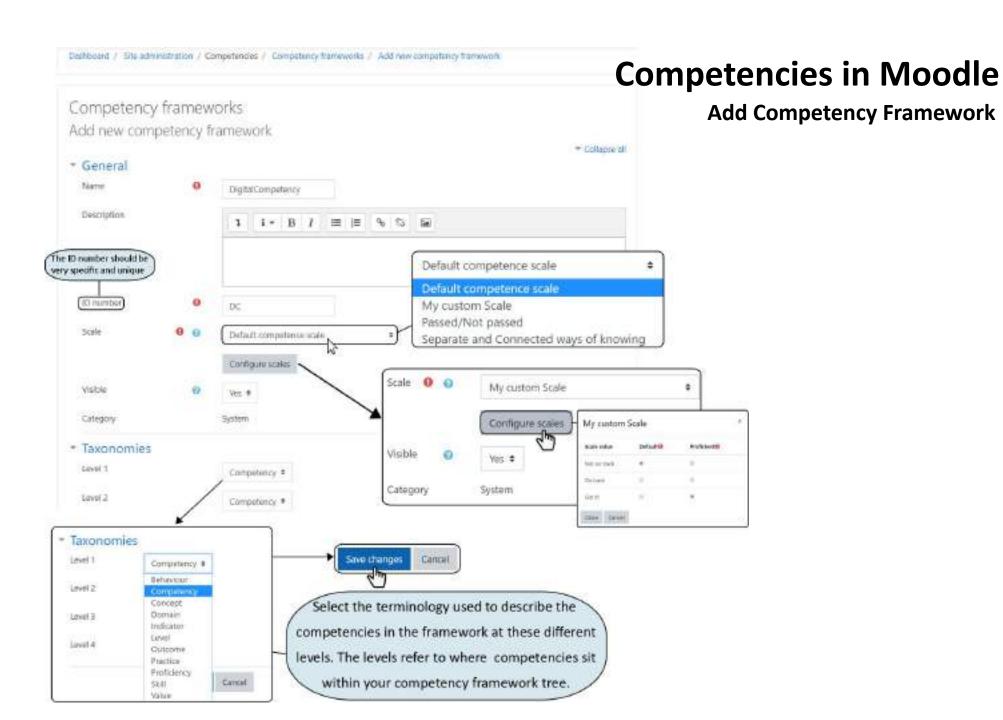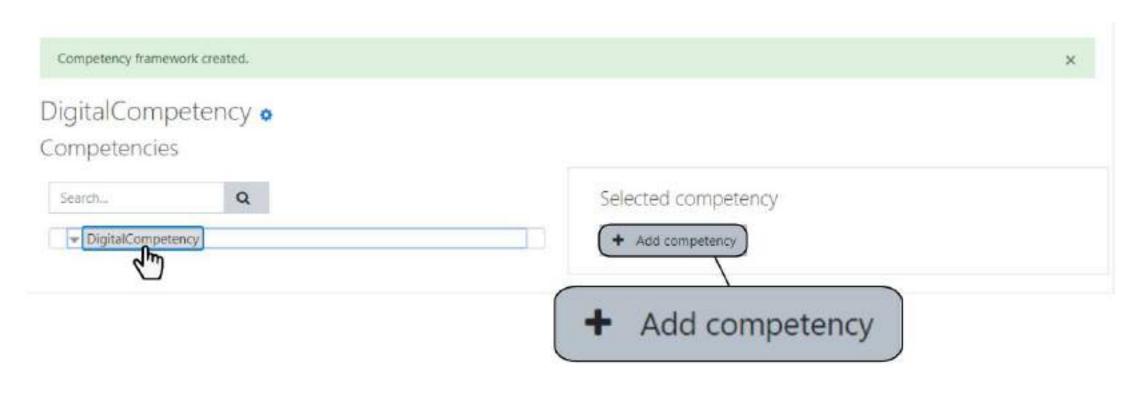
Dashboard / Site administration / Competencies / Competency frameworks / Add new competency framework

Competency frameworks
Add new competency framework

▼ Collapse all

▼ General

Name	❶	DigitalCompetency
Description		

The ID number should be very specific and unique

ID number	❶	DC
Scale	❶ ❶	Default competence scale ⬍

Configure scales

Default competence scale	⬍
Default competence scale	
My custom Scale	
Passed/Not passed	
Separate and Connected ways of knowing	

Visible	❷	Yes ⬍
Category		System

Scale	❶ ❶	My custom Scale ⬍

Configure scales

My custom Scale

Scale value	Default❶	Proficient❶
Not on track	●	○
On track	○	○
Got it	○	●

Close Cancel

Visible	❶	Yes ⬍
Category		System

▼ Taxonomies

Level 1	Competency ⬍
Level 2	Competency ⬍

▼ Taxonomies

Level 1	Competency ⬍
Level 2	
	Behaviour
	Competency
	Concept
Level 3	Domain
	Indicator
	Level
Level 4	Outcome
	Practice
	Proficiency
	Skill
	Value

Cancel

Save changes Cancel

Select the terminology used to describe the competencies in the framework at these different levels. The levels refer to where competencies sit within your competency framework tree.

**Add
Competency**

Competency framework created.   ×

DigitalCompetency ⚙

Competencies

| Search... | 🔍 |

▾ DigitalCompetency

Selected competency

➕ Add competency

➕ Add competency

Add
Competency

**Add
Competency**

Teachers	**Students**
🟣 Create Course Badges/activity completion	🟡 Earn badges through activity completion
⚫ Add Competency Framework	🟠 Download badges/ connect to backpack
🟤 **Import competency frameworks**	🟢 Share badges
🔵 Create Scale	🔵 Complete competencies
🟢 Add /link Competencies to courses	⚪ Earn badges through competencies
🟡 Add/link Competencies to activities	🟢 Attach evidence /students
🟣 Linking Competencies with Badges	🔵 Review manual evidence/teachers
🔴 Create learning plans	🟣 Review automated evidence/teachers

Competencies in Moodle

Import competency frameworks

Import already made competency frameworks from repository

Select competency framework and download

Import

In competency frameworks repository

use in
- courses
- activities

Competencies in Moodle

Import competency frameworks

Teachers

- Create Course Badges/activity completion
- Add Competency Framework
- Import competency frameworks
- **Create Scale**
- Add /link Competencies to courses
- Add/link Competencies to activities
- Linking Competencies with Badges
- Create learning plans

Students

- Earn badges through activity completion
- Download badges/ connect to backpack
- Share badges
- Complete competencies
- Earn badges through competencies
- Attach evidence /students
- Review manual evidence/teachers
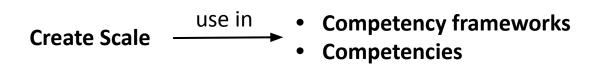- Review automated evidence/teachers

Scales in Moodle

Scales are a way of evaluating or rating a students' performance. Administrators can create standard scales which are available across the site, and teachers can create custom scales just for their own course.

https://docs.moodle.org/36/en/Scales

Scales can be simple or more complex depending on requirements. Within a scale you must mark the point at which a user is classed as proficient in that skill if that status is reached.

Scales are used when rating a competency. An individual competency in a framework can have a different scale to the framework.
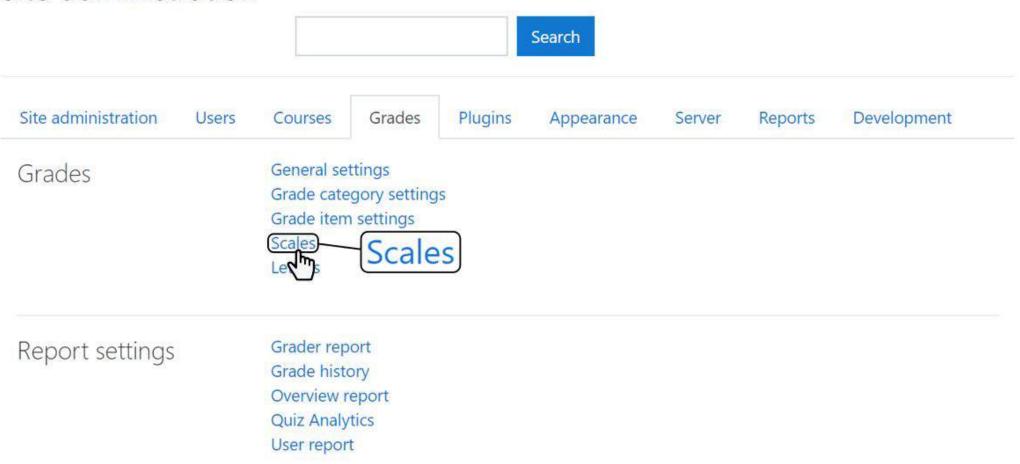
Common European scale

Create Scale —— use in ——▶
- **Competency frameworks**
- **Competencies**

Custom scales
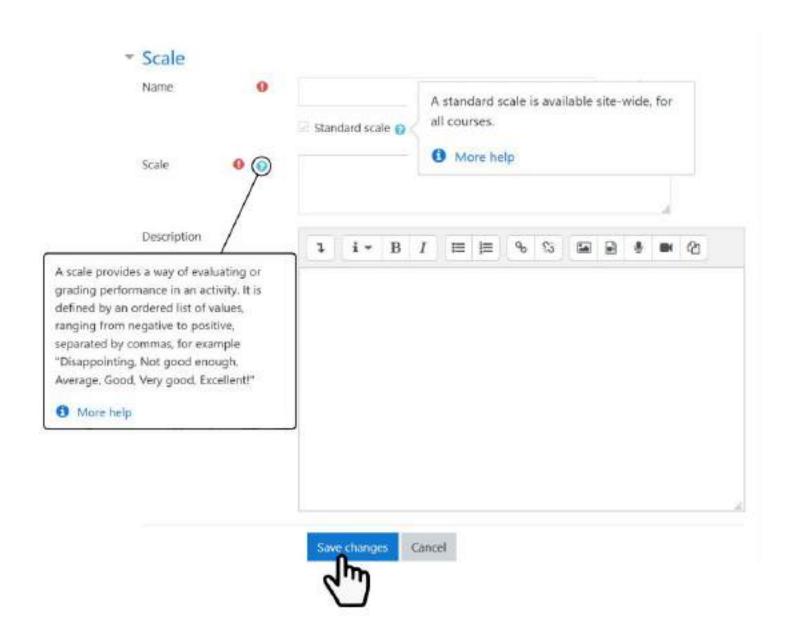
Standard scales

Scale	Used	Edit
Separate and Connected ways of knowing Mostly separate knowing, Separate and connected, Mostly connected knowing	No	⚙ 🗑
Default competence scale Not yet competent, Competent	Yes	⚙
Passed/Not passed Not passed, Passed	No	⚙ edit 🗑 delete
My custom Scale Not on track, On track, Got it!	Yes (scale that is being used)	⚙ (can only be edited when in use)

Add a new scale

Scale
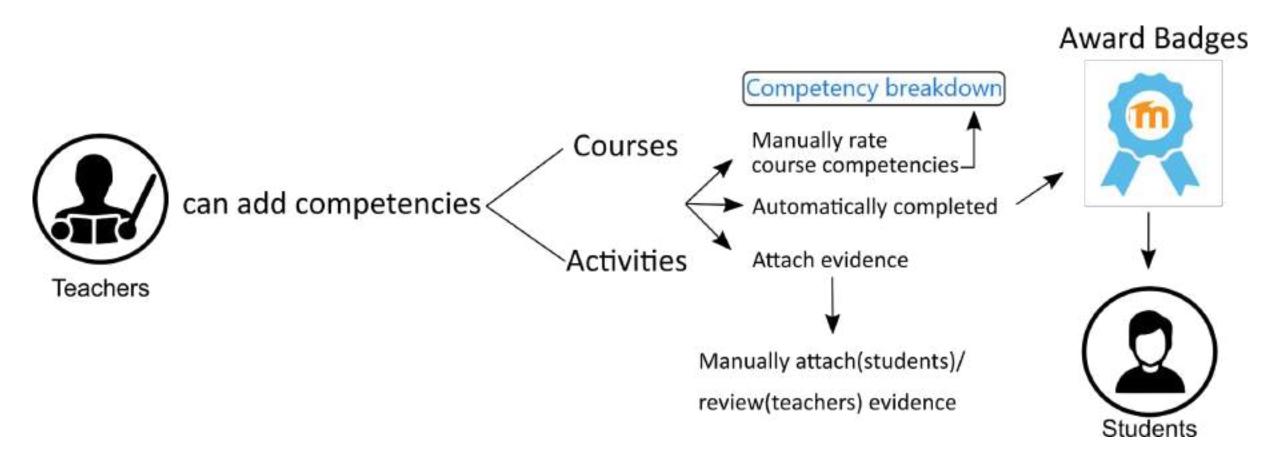
Name ❶

☐ Standard scale ❓   A standard scale is available site-wide, for all courses.

❶ More help

Scale ❶ ❓

Description

A scale provides a way of evaluating or grading performance in an activity. It is defined by an ordered list of values, ranging from negative to positive, separated by commas, for example "Disappointing, Not good enough, Average, Good, Very good, Excellent!"

❶ More help

Save changes   Cancel

Teachers	Students
● Create Course Badges/activity completion	● Earn badges through activity completion
● Add Competency Framework	● Download badges/ connect to backpack
● Import competency frameworks	● Share badges
● Create Scale	● Complete competencies
● **Add /link Competencies to courses**	● Earn badges through competencies
● Add/link Competencies to activities	● Attach evidence /students
● Linking Competencies with Badges	● Review manual evidence/teachers
● Create learning plans	● Review automated evidence/teachers
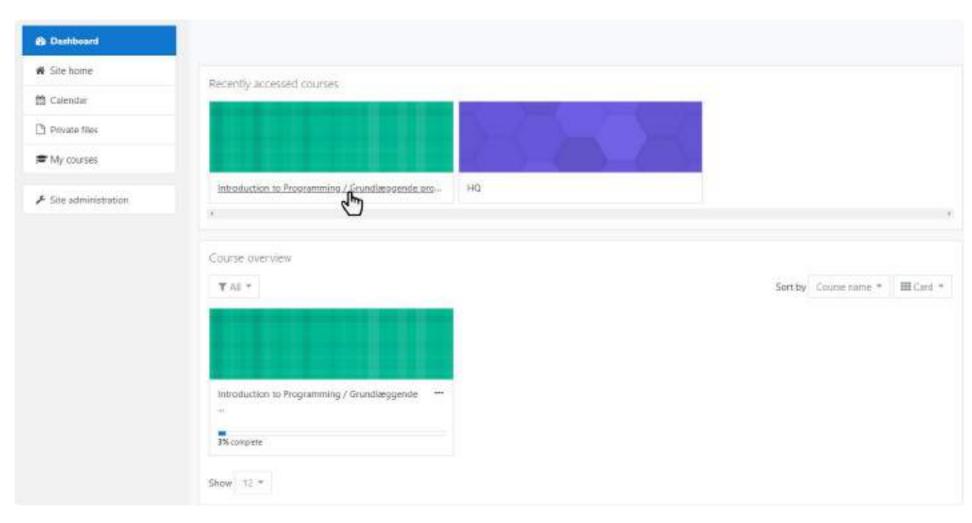
Competencies in Moodle
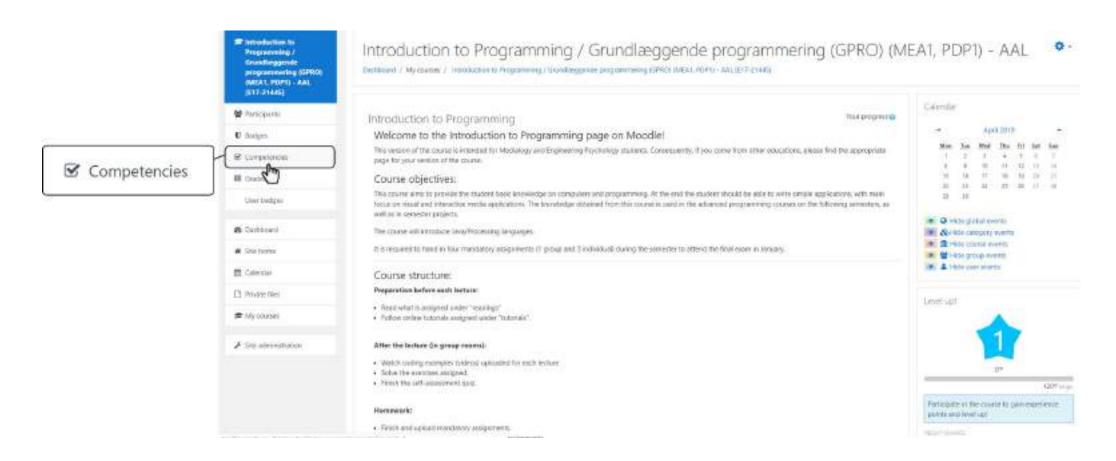## Add/link Competencies to courses

A course teacher can list which of the competencies they will be teaching in their course from the competencies. Competencies an be linked to one or more **courses/ activities**, to further help students understand which assignments relate to which key **skills/learning objectives** (competencies) and teachers can view students **progress**, or areas of difficulty in courses through competencies. Students will also have the ability to see how their understanding is being rated against key competencies.
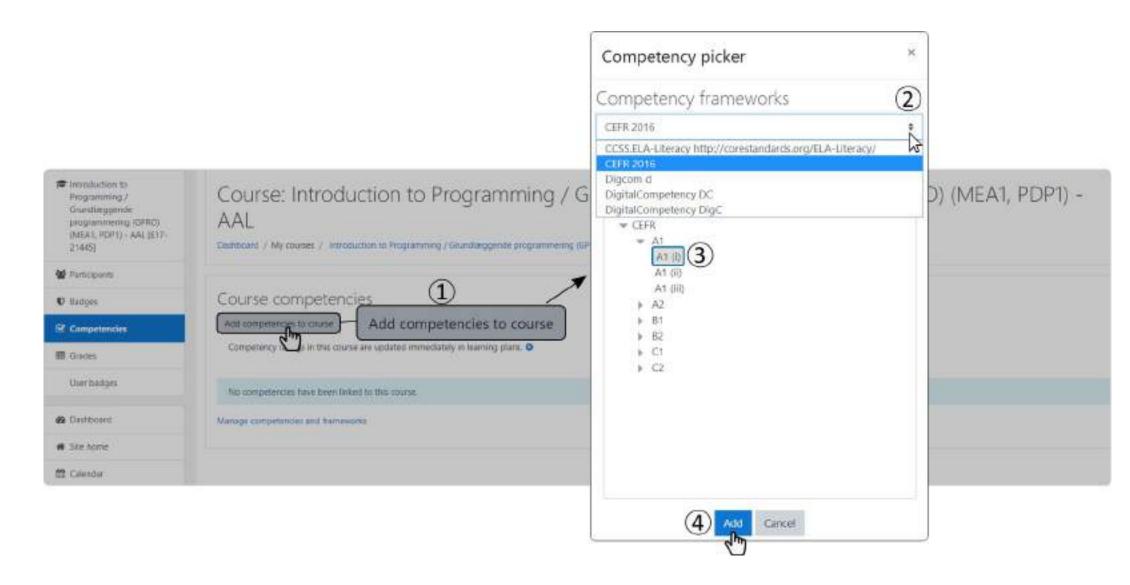
Competencies in Moodle

Add/link Competencies to courses

Course competencies

Add competencies to course

Competency ratings in this course are updated immediately in learning plans. ⚙

You are proficient in 0 out of 1 competencies in this course.

Competencies most often not proficient in this course

A1 (i) *20162*

🗑
A1 (I) *20162*

Can understand and use familiar everyday expressions and very basic phrases aimed at the satisfaction of needs of a concrete type.

Path:
CEFR / 20161
Upon course completion: Attach evidence ⇕

No activities

Attach evidence ⇕
Do nothing
Attach evidence
Send for review
Complete the competency

Students attach evidence to get competent in course competenices. Evidence can be url, or uploaded file(video, doc, etc.)

Send to teacher for manual review

Set competencies to automatically be marked as complete when the course is completed.

Manage competencies and frameworks
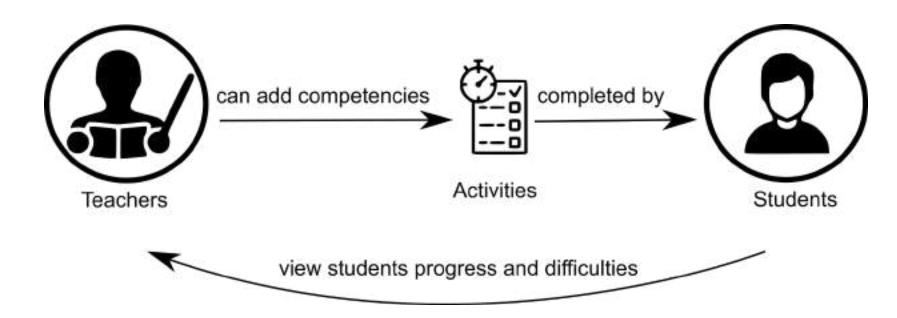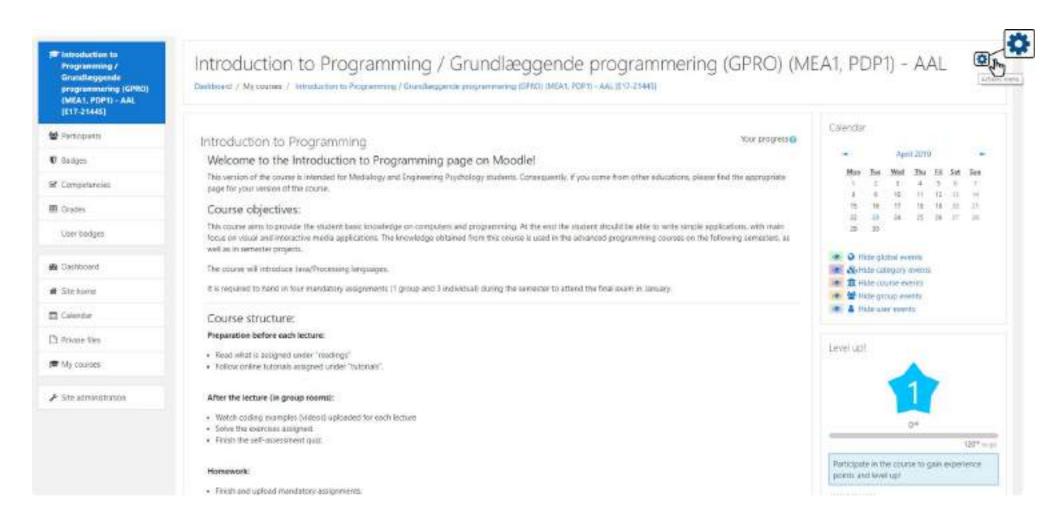
| Teachers	Students
● Create Course Badges/activity completion	● Earn badges through activity completion
● Add Competency Framework	● Download badges/ connect to backpack
● Import competency frameworks	● Share badges
● Create Scale	● Complete competencies
● Add /link Competencies to courses	● Earn badges through competencies
● **Add/link Competencies to activities**	● Attach evidence /students
● Linking Competencies with Badges	● Review manual evidence/teachers
● Create learning plans	● Review automated evidence/teachers
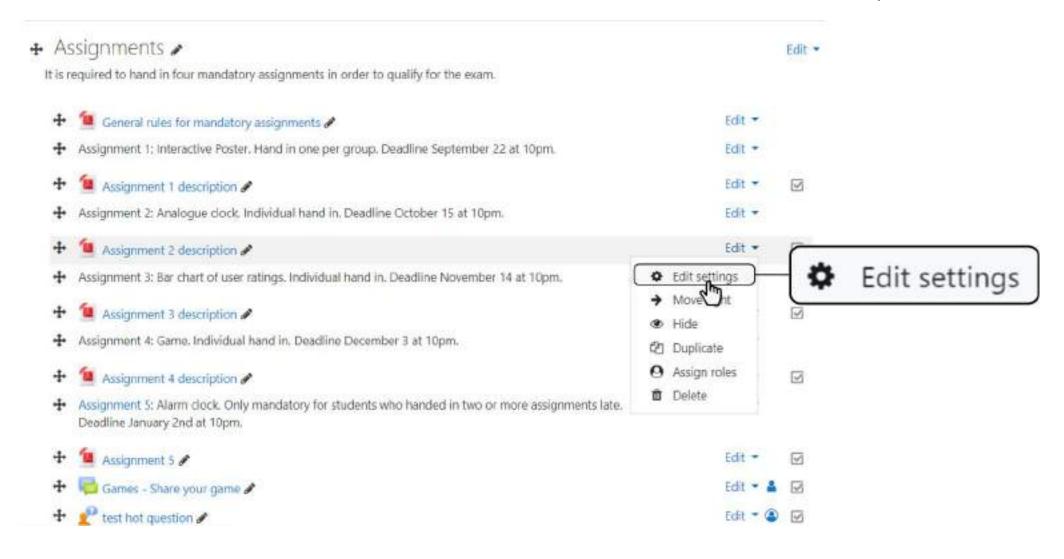
Once you have linked competencies to a course, you then have the option to link competencies to specific **activities**. Within your course you must first add an activity, for example an assignment and then you can link it to competencies. In the courses, apart from linking competency completion to course completion, the most useful way to use them, is to link them to activities within the courses, so that teachers can view students progress and difficulties in each activity of the course.
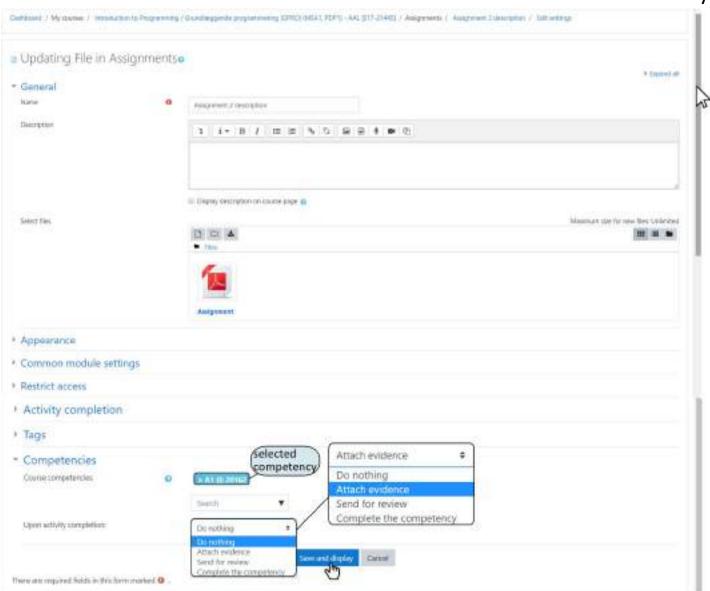
It is possible to map more than one competencies to an activity. It is possible to use **activity completion** to automatically complete - or **add evidence** to course competencies. If the competency is set to be completed when students attach evidence, they can attach a url or upload a file (video, doc, etc), teachers won´t be alerted once the evidence is available, so the students should request a review.

Competencies in Moodle

Add/link Competencies to activities

troduction to Programming / Grundlæggende

⚙ Edit settings

✎ Turn editing on

⚙ Course completion

👤 Unenrol me from Introduction to Programming / Grundlæggende programmering (GPRO) (MEA1, PDP1) – AAL [E17-21445]

▼ Filters

⚙ Gradebook setup

📄 Backup

↥ Restore

↥ Import

➔ Share

← Reset

🗄 Repositories

⚙ More...

✎ Turn editing on

Teachers

- Create Course Badges/activity completion
- Add Competency Framework
- Import competency frameworks
- Create Scale
- Add /link Competencies to courses
- Add/link Competencies to activities
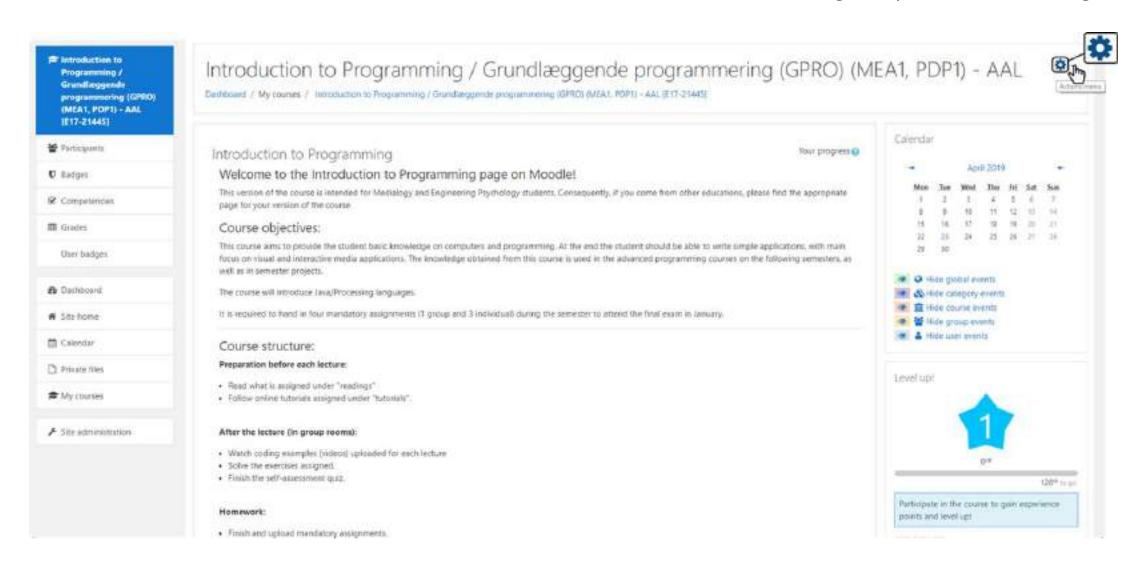- **Linking Competencies with Badges**
- Create learning plans

Students

- Earn badges through activity completion
- Download badges/ connect to backpack
- Share badges
- Complete competencies
- Earn badges through competencies
- Attach evidence /students
- Review manual evidence/teachers
- Review automated evidence/teachers

Badges in Moodle

Linking Competencies with Badges

Badges are a good way of celebrating achievement and showing progress. Badges may be awarded based on a variety of chosen criteria and can link to one or more competencies.

Activity Completion

or

Teachers

can award..

..a Badge..

⚙ Configurable to represent:

- A reward
- Aquired competency
- Completed course/ activity

to..

Students

troduction to Programming / Grundlæggende

⚙️ ▾

⚙ Edit settings

✏ Turn editing on

⚙ Course completion

👤 Unenrol me from Introduction to Programming / Grundlæggende programmering (GPRO) (MEA1, PDP1) - AAL [E17-21445]

🔽 Filters

⚙ Gradebook setup

🖹 Backup

⬆ Restore

⬆ Import

➡ Share

⬅ Reset

🖴 Repositories

⚙ More...

⚙ More...

Course administration	Users

Edit settings
Turn editing off
Course completion
Unenrol me from Introduction to Programming / Grundlæggende programmering (GPRO) (MEA1, PDP1) - AAL [E17-21445]
Filters
Gradebook setup
Backup
Restore
Import
Share
Reset
Repositories

Reports

Competency breakdown
Logs
Live logs
Activity report
Course participation
Activity completion

Badges

Manage badges
Add a new badge
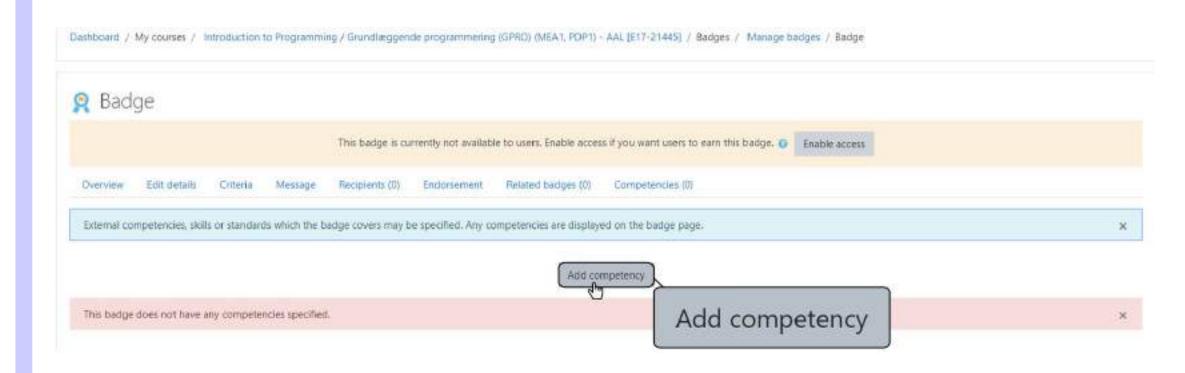
Manage badges

Dashboard / My courses / Introduction to Programming / Grundlæggende programmering (GPRO) (MEA1, PDP1) - AAL [E17-21445] / Badges / Manage badges
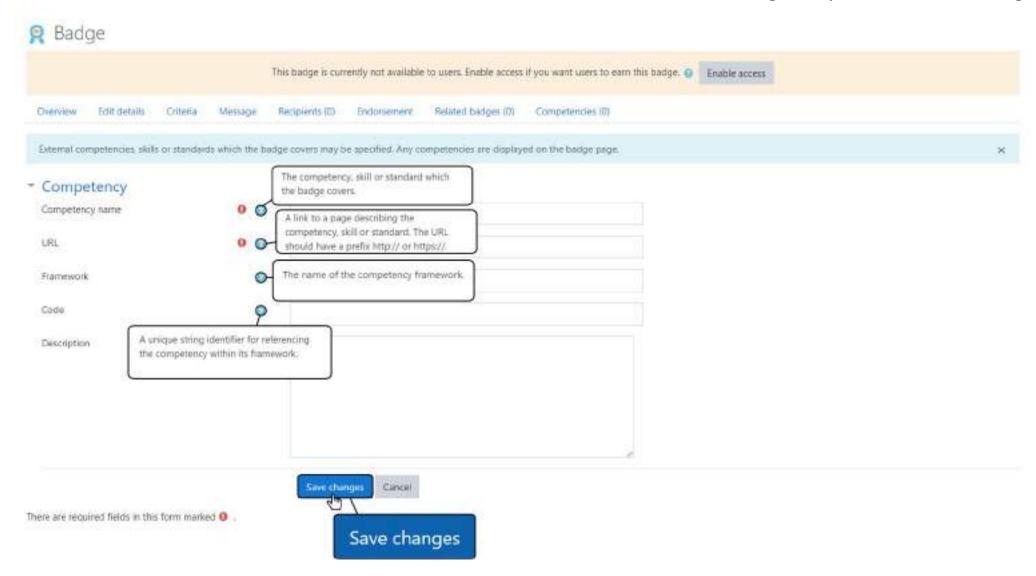
Introduction to Programming / Grundlæggende programmering (GPRO) (MEA1, PDP1) - AAL: Manage badges

Number of badges available: 1

Add a new badge

Name ▾	Badge status ▲ ▾	Criteria	Recipients	Actions
🎗 Badge	Not available to users	• Complete: "File - Assignment 3 description"	0	
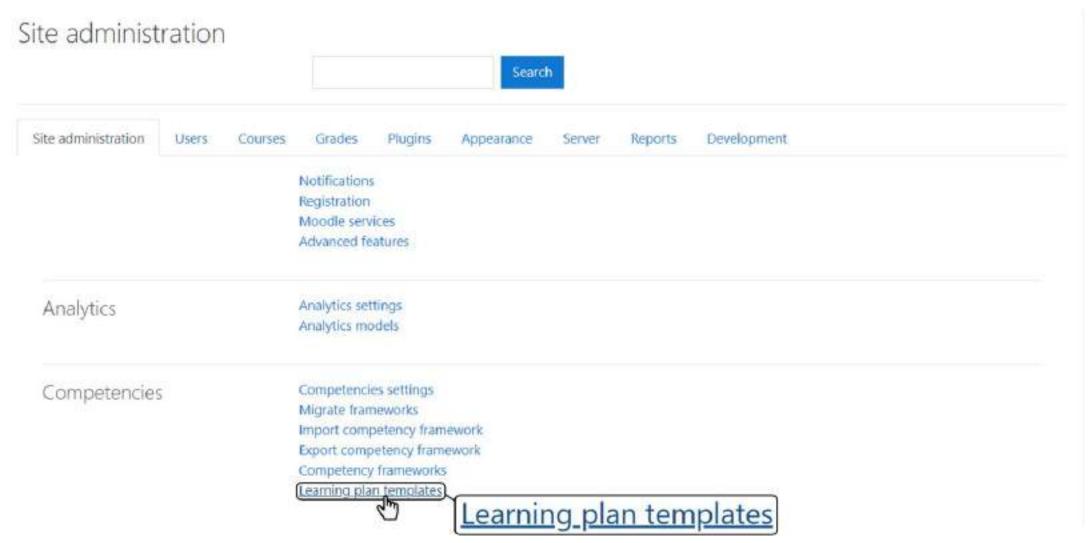
Teachers	Students
● Create Course Badges/activity completion	● Earn badges through activity completion
● Add Competency Framework	● Download badges/ connect to backpack
● Import competency frameworks	● Share badges
● Create Scale	● Complete competencies
● Add /link Competencies to courses	● Earn badges through competencies
● Add/link Competencies to activities	● Attach evidence /students
● Linking Competencies with Badges	● Review manual evidence/teachers
● **Create learning plans**	● Review automated evidence/teachers

A **learning plan** defines a set of competencies which you can assign to an individual or group of learners. Learning plans can be particularly useful if there are a selection of competencies over multiple frameworks that you wish you assess in one location as opposed to over several courses. A learning plan can be a series of courses or pathways in which students will get to meet that plan.

Once a **Competency framework** has been set up, you can then create a learning plan template. A learning plan template defines a set of competencies which you can assign to a group of users. This is better than creating individual learning plans for many different students and means you only need to update the template and the changes will appear for all students.
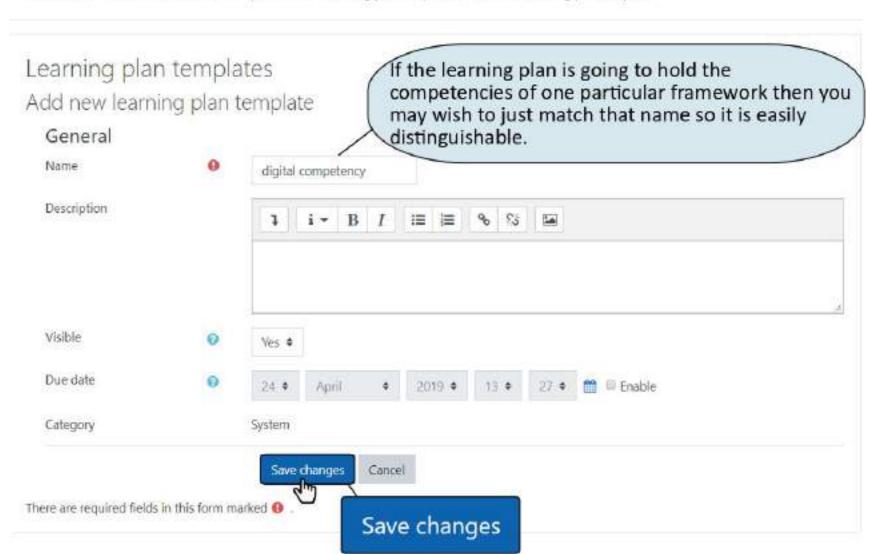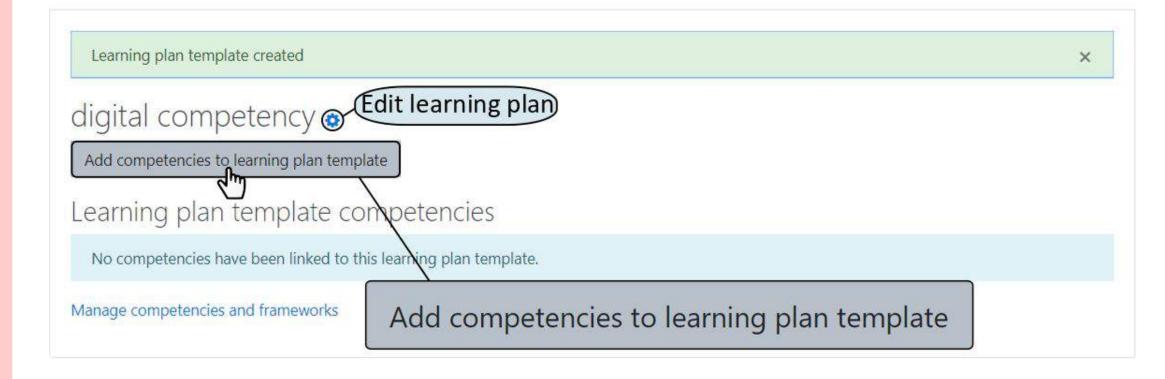
Dashboard / Site administration / Competencies / Learning plan templates / Add new learning plan template

Learning plan templates

Add new learning plan template

General

Name ❶ | digital competency

If the learning plan is going to hold the competencies of one particular framework then you may wish to just match that name so it is easily distinguishable.

Description

| ꜛ | i ▾ | B | I | ☰ | ☰ | ⅋ | ℅ | ☒ |

Visible ❓ | Yes ♦

Due date ❓ | 24 ♦ | April ♦ | 2019 ♦ | 13 ♦ | 27 ♦ | 🗓 ☐ Enable

Category | System

Save changes   Cancel

There are required fields in this form marked ❶ .

Save changes

Teachers	Students
● Create Course Badges/activity completion	● **Earn badges through activity completion**
● Add Competency Framework	● Download badges/ connect to backpack
● Import competency frameworks	● Share badges
● Create Scale	● Complete competencies
● Add /link Competencies to courses	● Earn badges through competencies
● Add/link Competencies to activities	● Attach evidence /students
● Linking Competencies with Badges	● Review manual evidence/teachers
● Create learning plans	● Review automated evidence/teachers

Badges　　　　Earned by..

- Students
- Learners

Badges in Moodle

Earn badges through activity completion

Badges in Moodle

Earn badges through activity completion

Badges in Moodle

Earn badges through activity completion

Badges in Moodle

Go back to course page

Earn badges through activity completion

It is required to hand in four mandatory assignments in order to qualify for the exam.

Introduction to Programming / Grundlæggende programmering (GPRO) (MEA1, PDP1) - AAL [E17-21445]

- Participants
- Badges
- Competencies
- User badges

- Dashboard
- Site home
- Calendar
- Private files
- My courses

General rules for mandatory assignments

Assignment 1: Interactive Poster. Hand in one per group. Deadline September 22 at 10pm.

Assignment 1 description ☐

Assignment 2: Analogue clock. Individual hand in. Deadline October 15 at 10pm.

Assignment 2 description ☑

Assignment 3: Bar chart of user [10pm.]

Assignment 3 description

Assignment 3 description

☐

Assignment 4: Game. Individual hand in. Deadline December 3 at 10pm.

Assignment 4 description ☑

Assignment 5: Alarm clock. Only mandatory for students who handed in two or more assignments late. Deadline January 2nd at 10pm.

Assignment 5 ☑

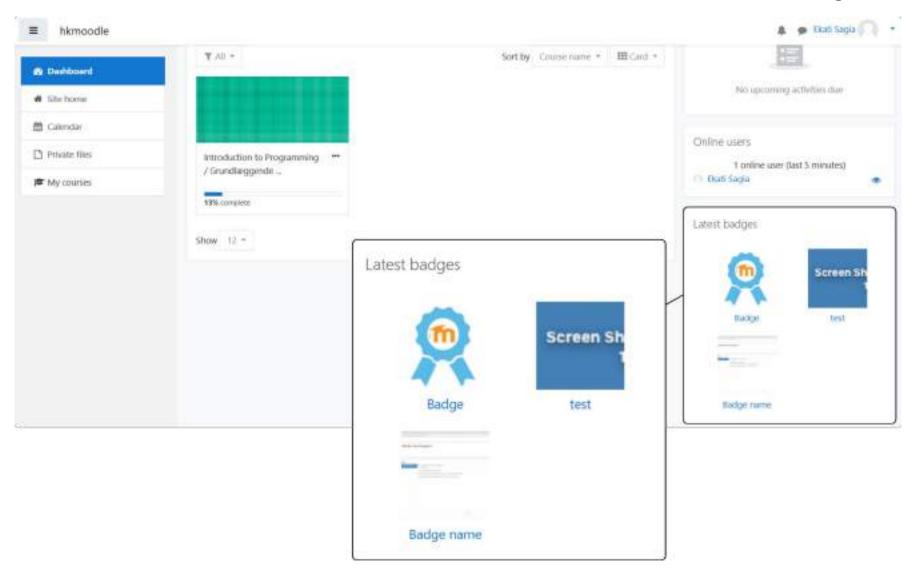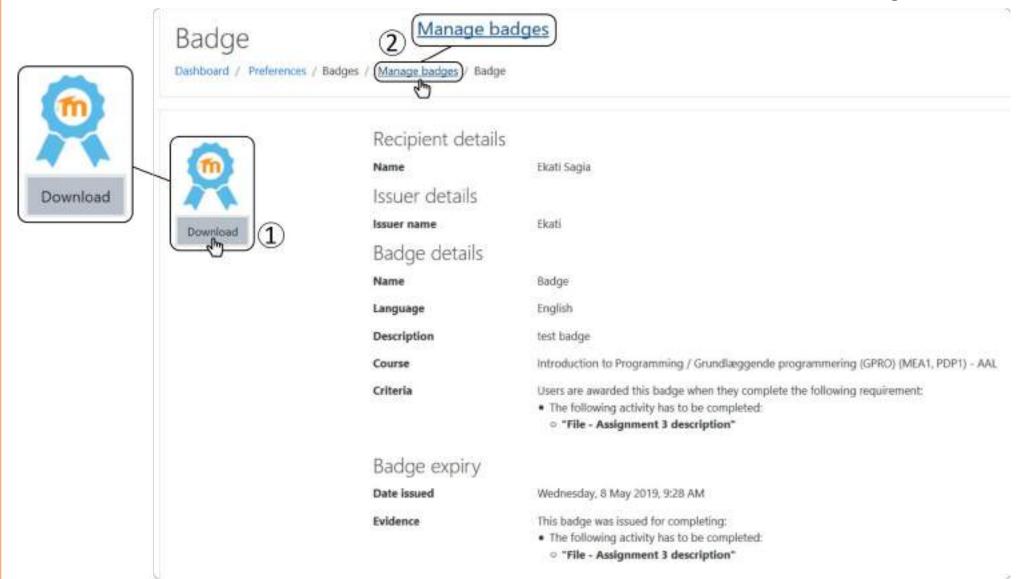Games - Share your game ☐

test hot question ☐

test for CLOZE ☑

— + 100% :

Assignment 3: Bar chart

Mandatory individual assignment.

Requirements:

Let the user give scores from 1-5. Either by clicking buttons or with keyboard input. Collect 10 scores in an array, before plotting the result. The result should be visualized in a bar chart.

It is a requirement that you implement user defined functions, such that the draw function will primarily consist of function calls.

Hand in:

Upload your assignment to peergrade.io. Include your Processing sketch (.pde file) and any external files, like sound files and pictures, in a zip file and upload only the zip file.

Badges in Moodle

Go back to course page

Earn badges through activity completion

Badges in Moodle

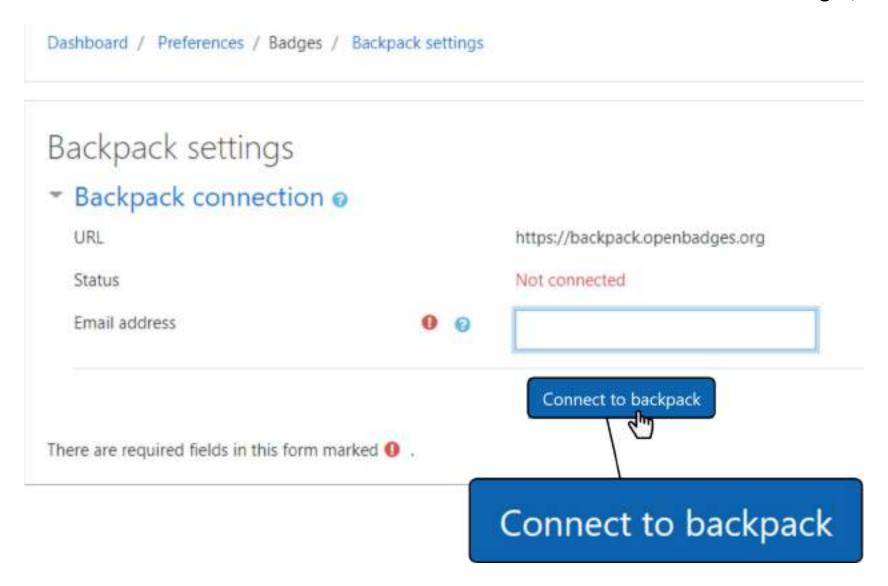Earn badges through activity completion

Teachers

- Create Course Badges/activity completion
- Add Competency Framework
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- Add/link Competencies to activities
- Linking Competencies with Badges
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Students

- Earn badges through activity completion
- **Download badges/ connect to backpack**
- Share badges
- Complete competencies
- Earn badges through competencies
- Attach evidence /students
- Review manual evidence/teachers
- Review automated evidence/teachers

Badges in Moodle

Download badges/ connect to backpack

Dashboard / Preferences / Badges / Backpack settings

Backpack settings

Backpack connection ❓

URL		https://backpack.openbadges.org
Status		Not connected
Email address	❗ ❓	

Connect to backpack

There are required fields in this form marked ❗ .

Connect to backpack

Dashboard / Preferences / Badges / Backpack settings

Backpack settings

▼ Backpack connection ⊚

URL	https://backpack.openbadges.org
Status	Verification pending
Email address	sagiaekati@gmail.com

[Resend verification email] [Connect using a different email address]

Teachers	Students
● Create Course Badges/activity completion	● Earn badges through activity completion
● Add Competency Framework	● Download badges/ connect to backpack
● Import competency frameworks	● **Share badges**
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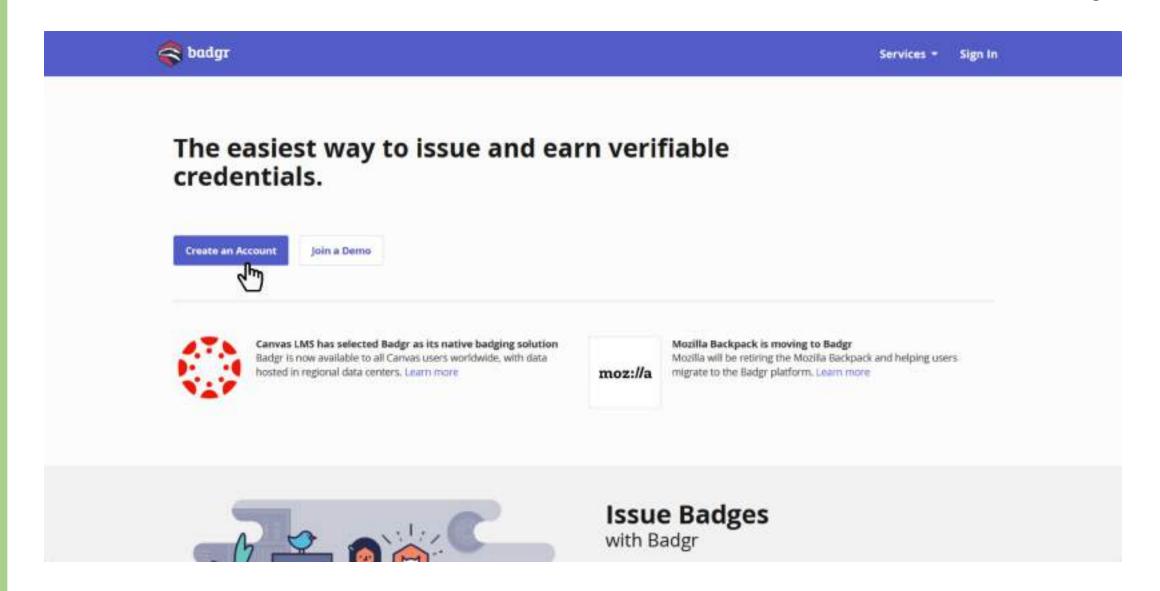
Badges in Moodle
Sharing Badges
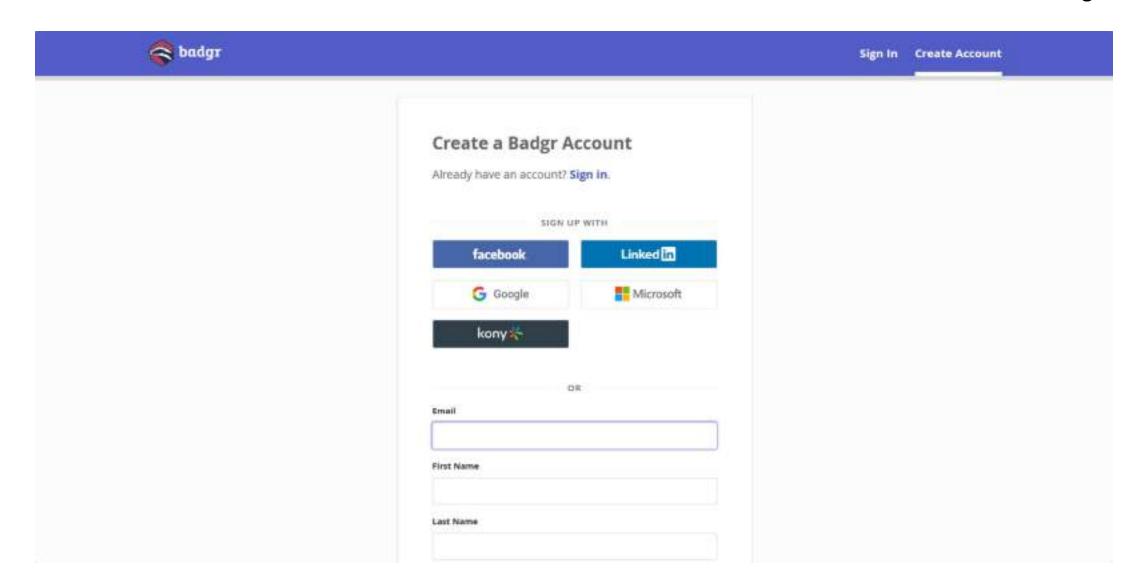
- Students
- Learners
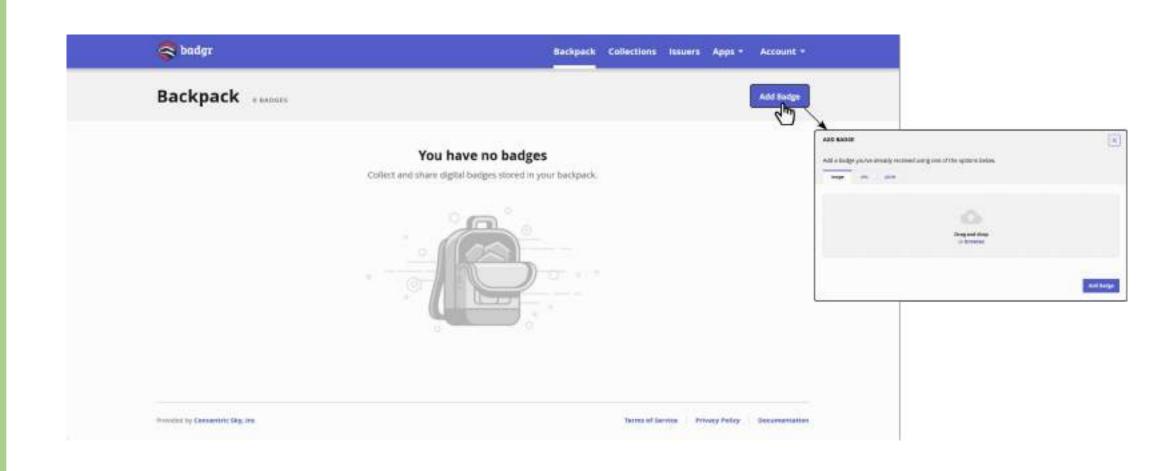
Display/ Share
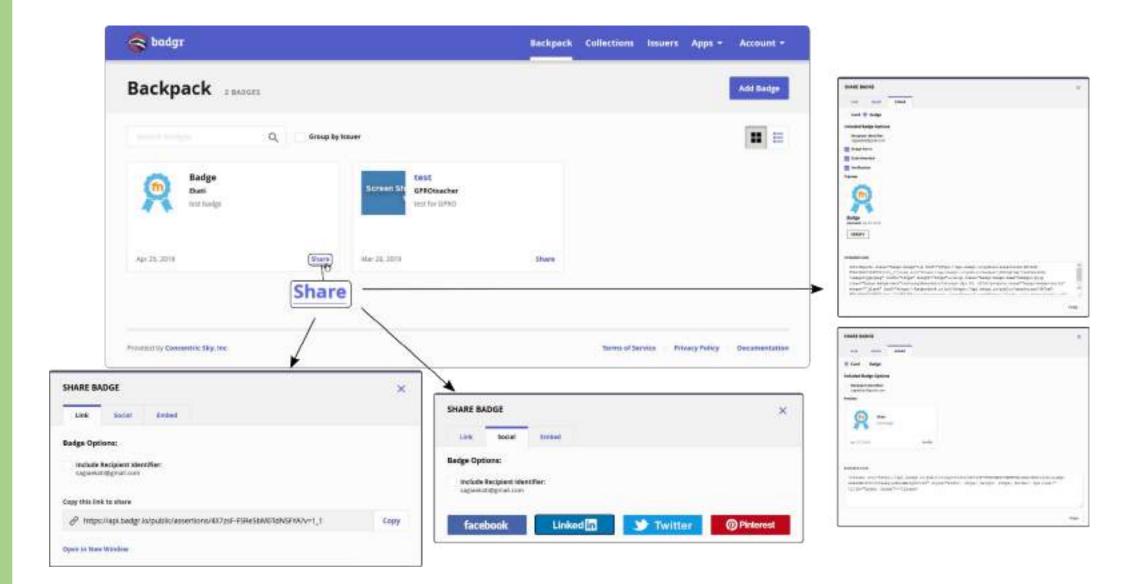
Badges in online backpacks

moodle — **earn** → — **upload** → badgr — **share** →

Teachers

- Create Course Badges/activity completion
- Add Competency Framework
- Import competency frameworks
- Create Scale
- Add /link Competencies to courses
- Add/link Competencies to activities
- Linking Competencies with Badges
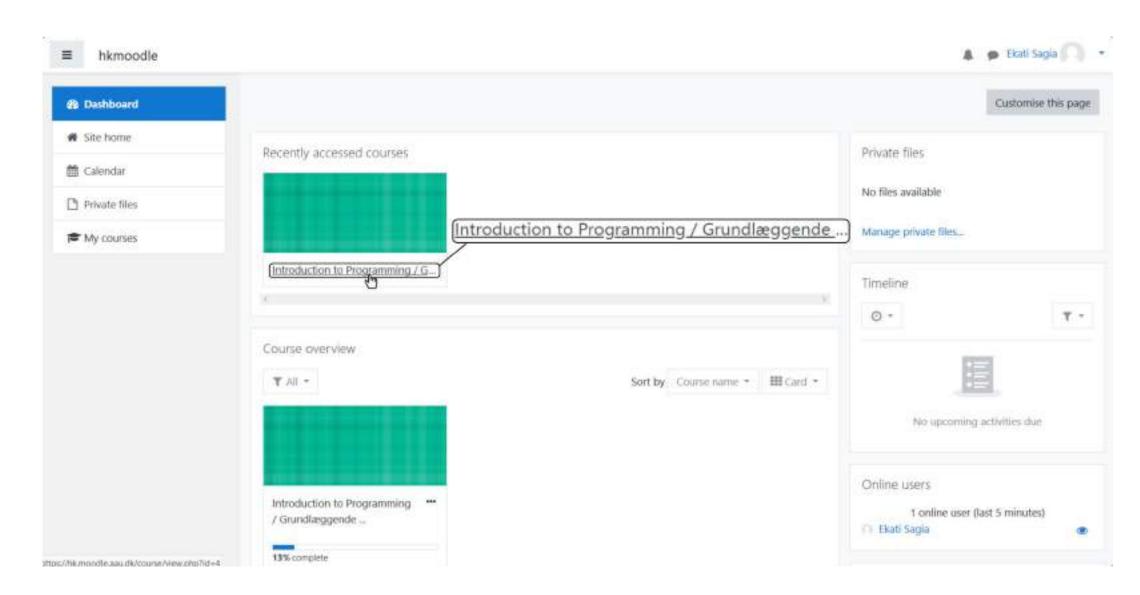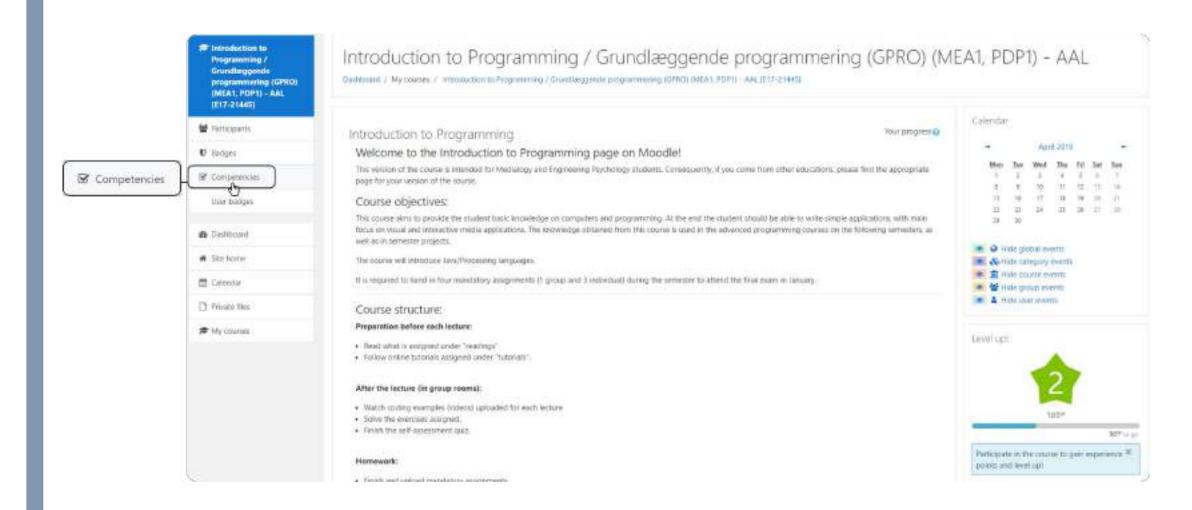- Create learning plans

Students
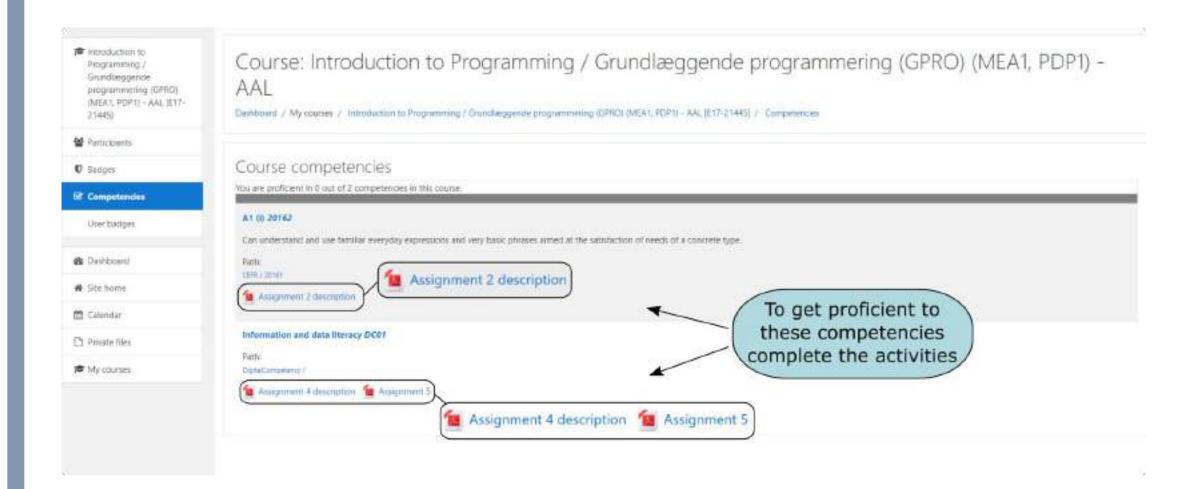
- Earn badges through activity completion
- Download badges/ connect to backpack
- Share badges
- **Complete competencies**
- Earn badges through competencies
- Attach evidence /students
- Review manual evidence/teachers
- Review automated evidence/teachers

Students can view available competencies in courses and become competent in them by completing the linked activities.
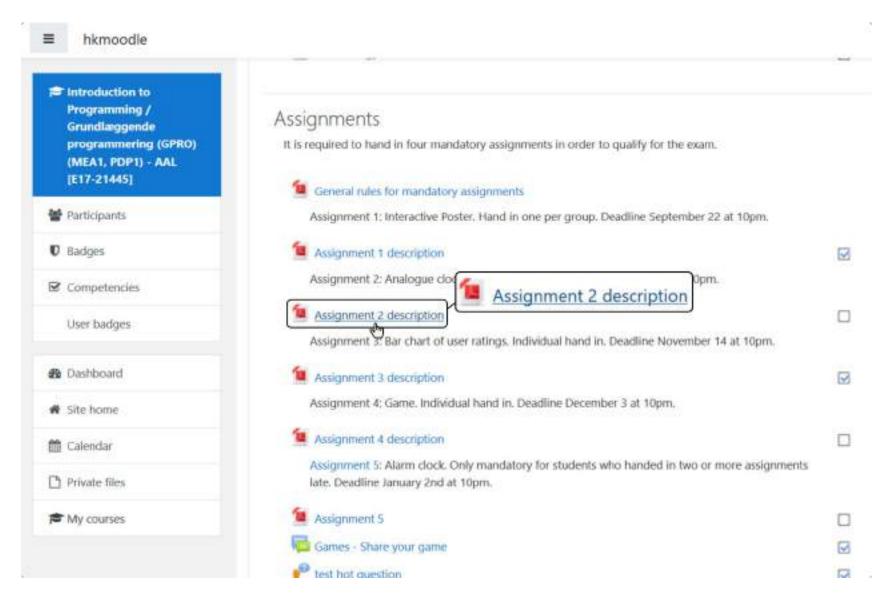
Competencies help students understand the skills they need to have to complete a course or a set of assignments. It is also a great way to view they progress and difficulties within a course.
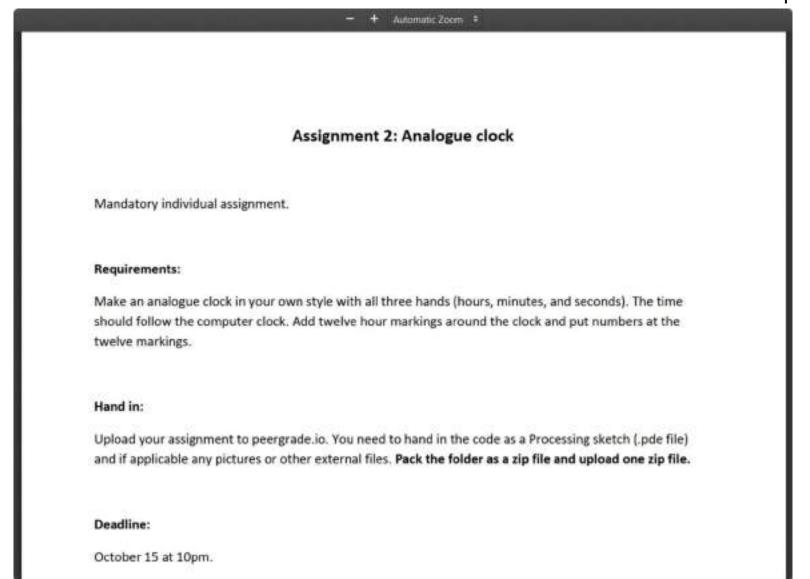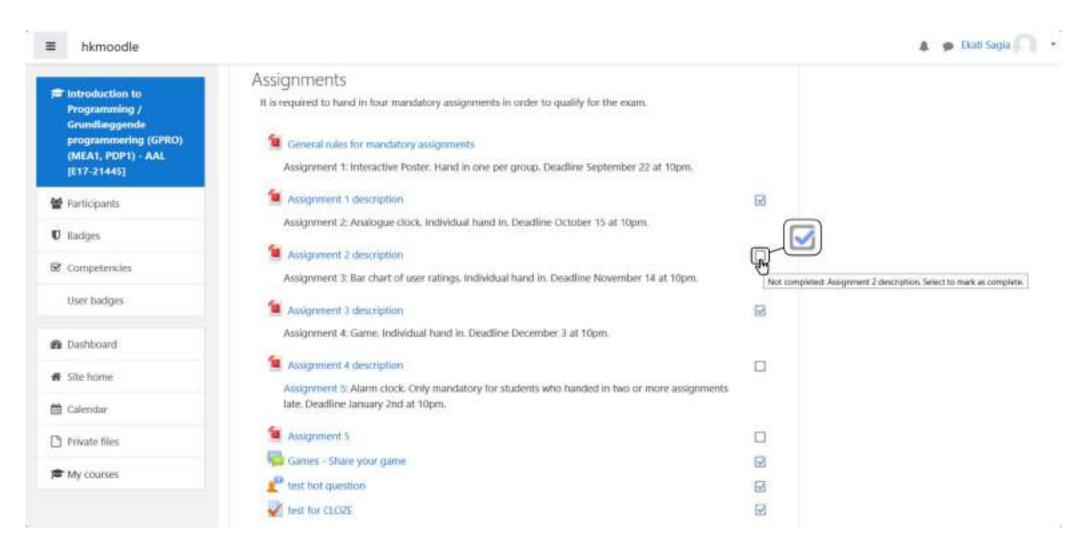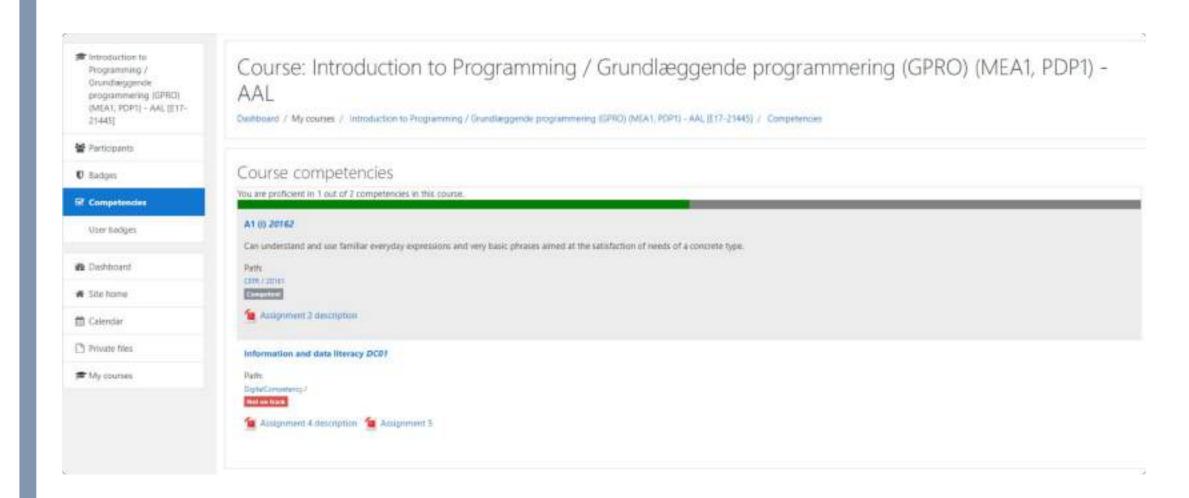
Assignment 2: Analogue clock
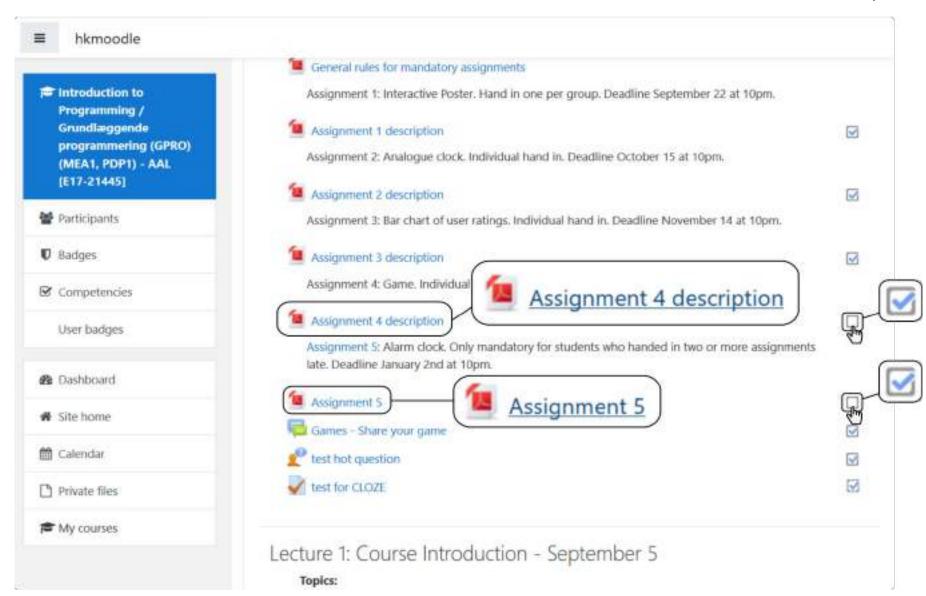
Mandatory individual assignment.

Requirements:

Make an analogue clock in your own style with all three hands (hours, minutes, and seconds). The time should follow the computer clock. Add twelve hour markings around the clock and put numbers at the twelve markings.

Hand in:

Upload your assignment to peergrade.io. You need to hand in the code as a Processing sketch (.pde file) and if applicable any pictures or other external files. **Pack the folder as a zip file and upload one zip file.**

Deadline:

October 15 at 10pm.

Go back to course page

Teachers	Students
🟣 Create Course Badges/activity completion	🟡 Earn badges through activity completion
⚫ Add Competency Framework	🟠 Download badges/ connect to backpack
🟤 Import competency frameworks	🟢 Share badges
🔵 Create Scale	🔵 Complete competencies
🟢 Add /link Competencies to courses	⚪ **Earn badges through competencies**
🟡 Add/link Competencies to activities	🟢 Attach evidence /students
🟣 Linking Competencies with Badges	🟦 Review manual evidence/teachers
🔴 Create learning plans	🟣 Review automated evidence/teachers

Students can´t earn a badge only by passing a competency as we can see in <u>Linking Competencies with Badges</u>, teachers must also select either:
- Manual issue by role
- Course completion
- Awarded badges
- Activity completion

And after adding one or more of the choices above, they can also add one or more competencies for the students to complete.

Students can´t see that the badges are linked to competencies.

- Students
- Learners

Attach
evidence..

Teachers

Review evidence..

Verify Badge

Teachers

- Create Course Badges/activity completion
- Add Competency Framework
- Import competency frameworks
- Create Scale
- Add /link Competencies to courses
- Add/link Competencies to activities
- Linking Competencies with Badges
- Create learning plans

Students

- Earn badges through activity completion
- Download badges/ connect to backpack
- Share badges
- Complete competencies
- Earn badges through competencies
- **Attach evidence /students**
- Review manual evidence/teachers
- Review automated evidence/teachers

Attach evidence in moodle:
- for students to **link files**, which they **send for review** to the teacher, to show that they are competent in an assignment or a quiz which is linked to a competency- can only **manually** add evidence if a competency is linked to a **learning plan**.
- for teachers to **request** and then **review** the evidence of the students work- it is a **manual procedure** to review evidence. Either it is **automatically** added by moodle, in the case of competencies and badges, or **manually** added by the student, in the case of competencies in learning plans. Teachers by setting `attach evidence´ upon activity competion in a competency, though the student can´t see that he has to attach evidence, he also can´t pass the competency until the teacher reviews the automated evidence (link to the activity added by moodle). On the contrary, if teachers set `**complete the competency´** upon activity completion, then the student after completing it, can see that they are competent.
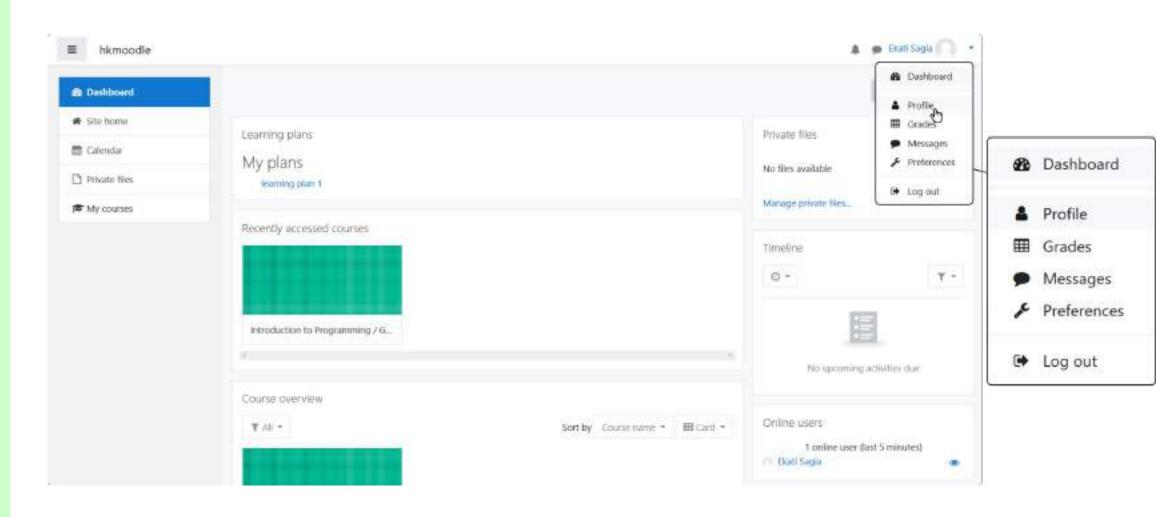
First the teacher has to:
1. Create competency Framework
2. Add /link Competencies to courses
3. Add /link Competencies to activities
4. Set attach evidence upon activity completion in competency

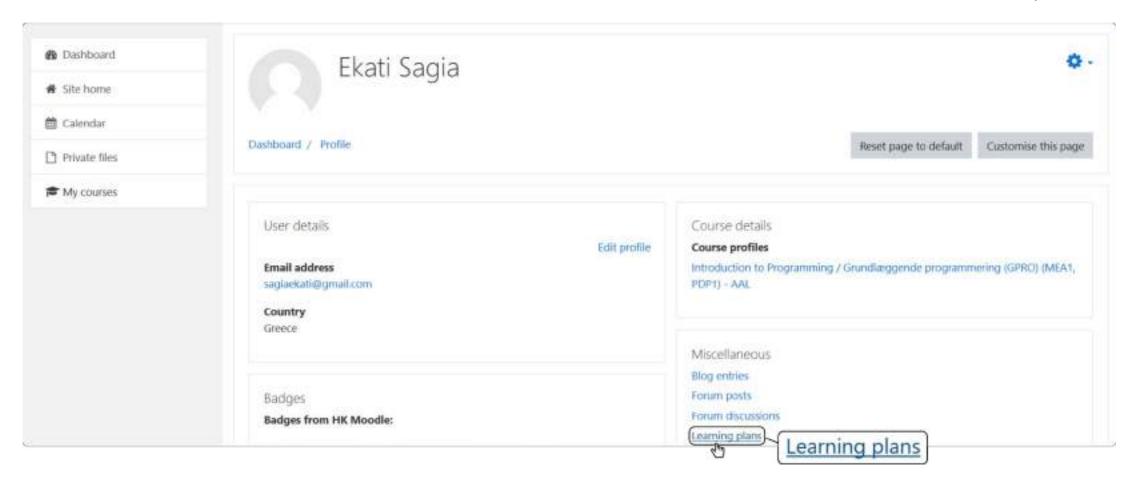- In badges
- In competencies ⟶ Not shown to students/ automatically added by moodle
- In learning plans ⟶ Students can manually attach evidence of prior learning(upload any file)
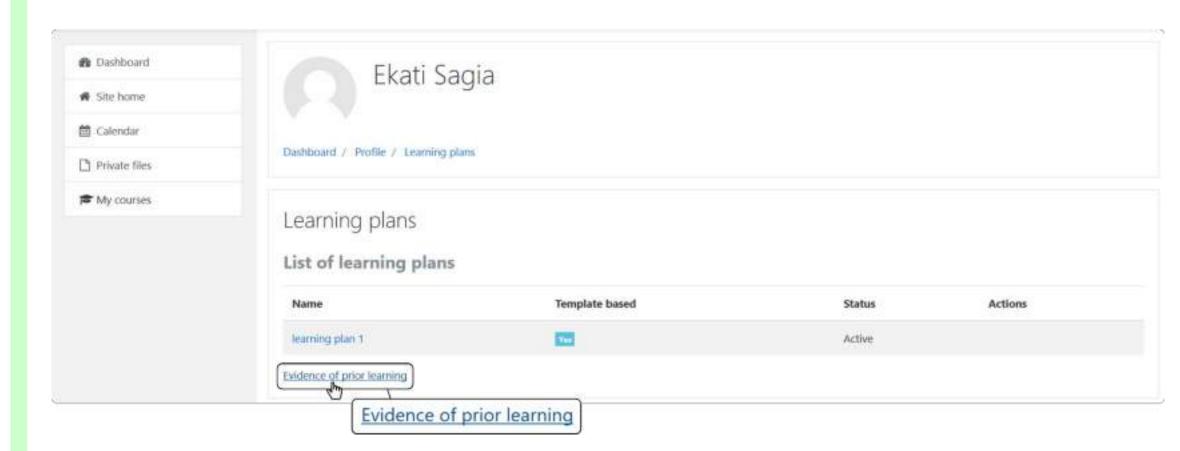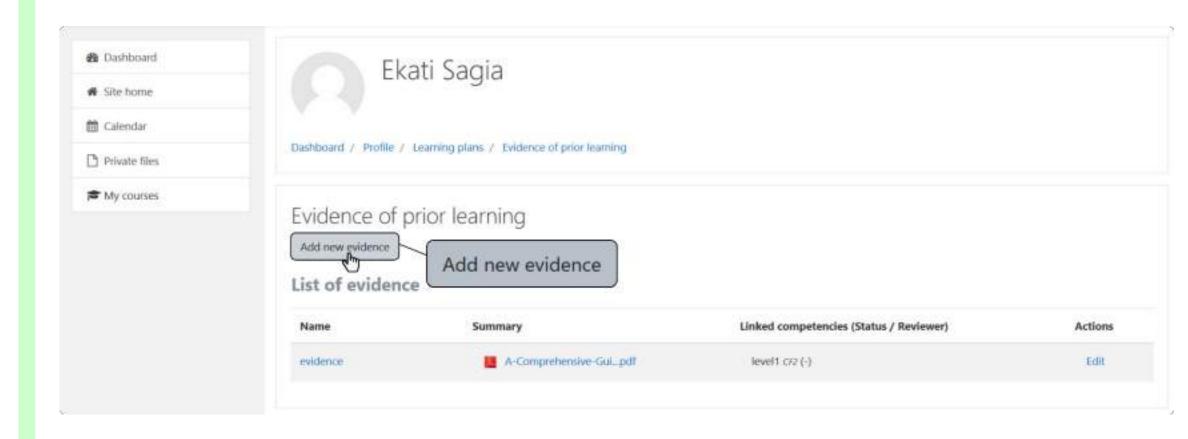(linked with competencies)

Evidence in Moodle
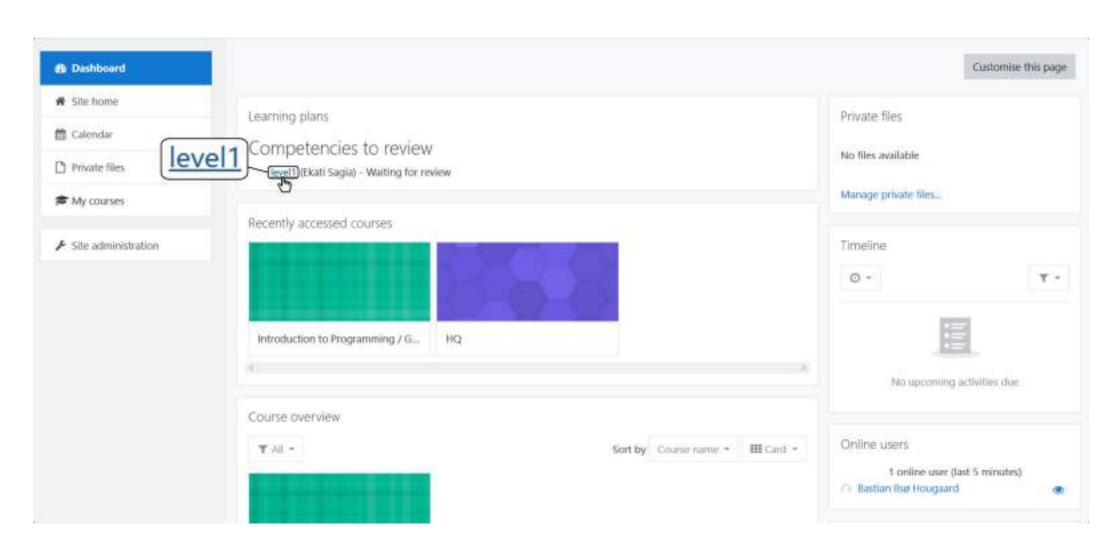
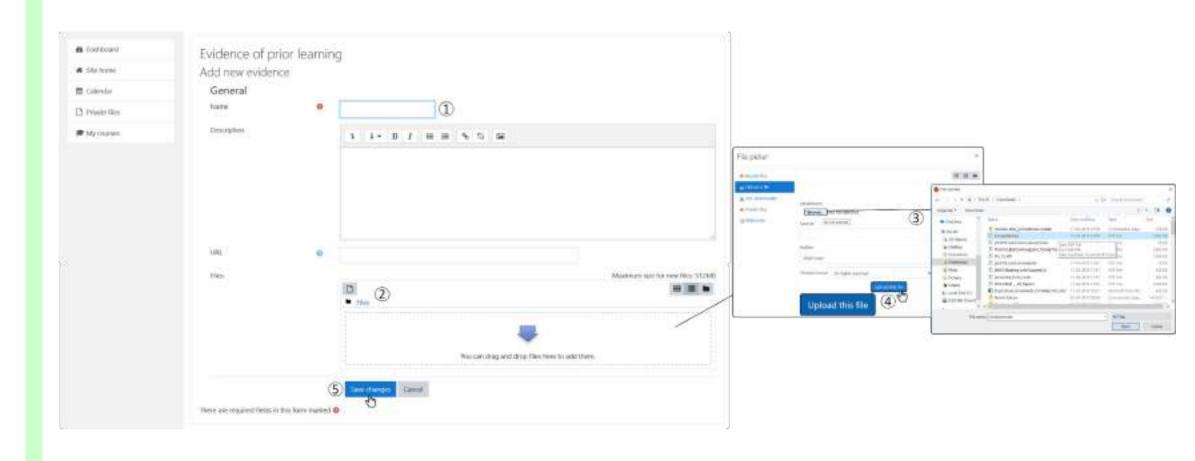Attach evidence/students

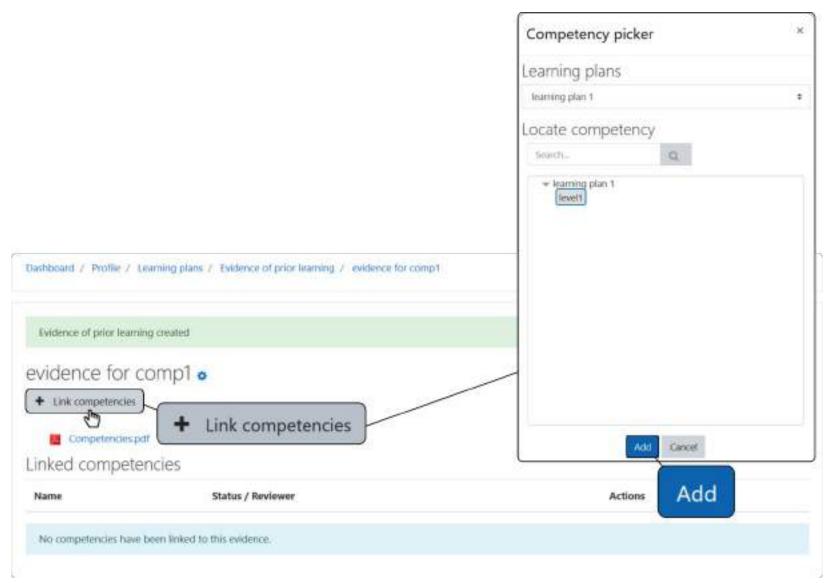Dashboard / Profile / Learning plans / Evidence of prior learning / evidence for comp1

evidence for comp1 ⚙

+ Link competencies

📕 Competencies.pdf

Linked competencies

Name	Status / Reviewer	Actions
level1	-	🗑

level1

Evidence in Moodle

Attach evidence/students

Teachers	Students
● Create Course Badges/activity completion	● Earn badges through activity completion
● Add Competency Framework	● Download badges/ connect to backpack
● Import competency frameworks	● Share badges
● Create Scale	● Complete competencies
● Add /link Competencies to courses	● Earn badges through competencies
● Add/link Competencies to activities	● Attach evidence /students
● Linking Competencies with Badges	● **Review manual evidence/teachers**
● Create learning plans	● Review automated evidence/teachers

Evidence in Moodle

Review manual evidence/teachers

Teachers

- Create Course Badges/activity completion
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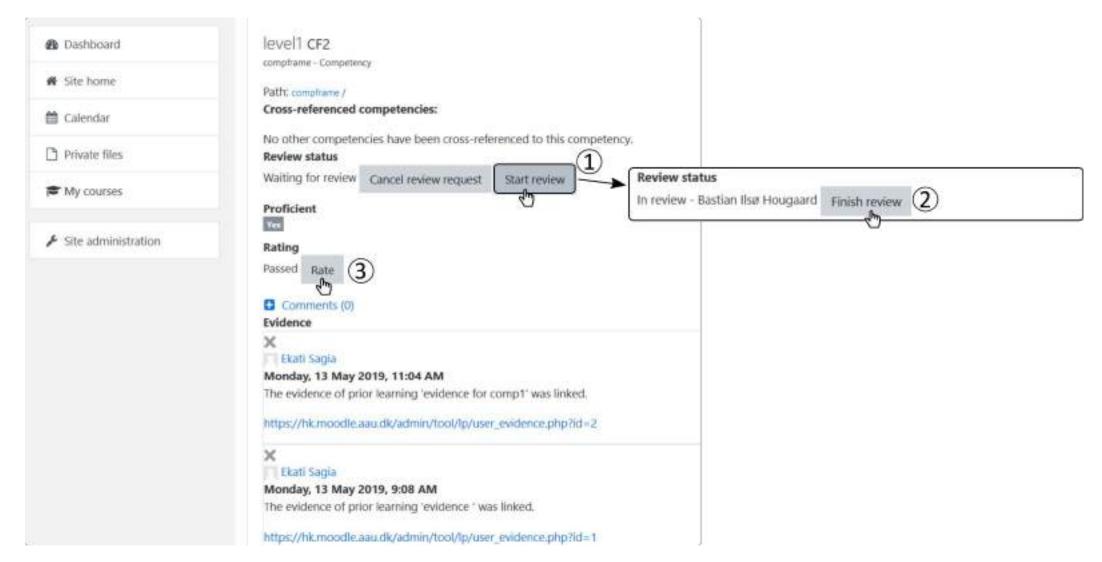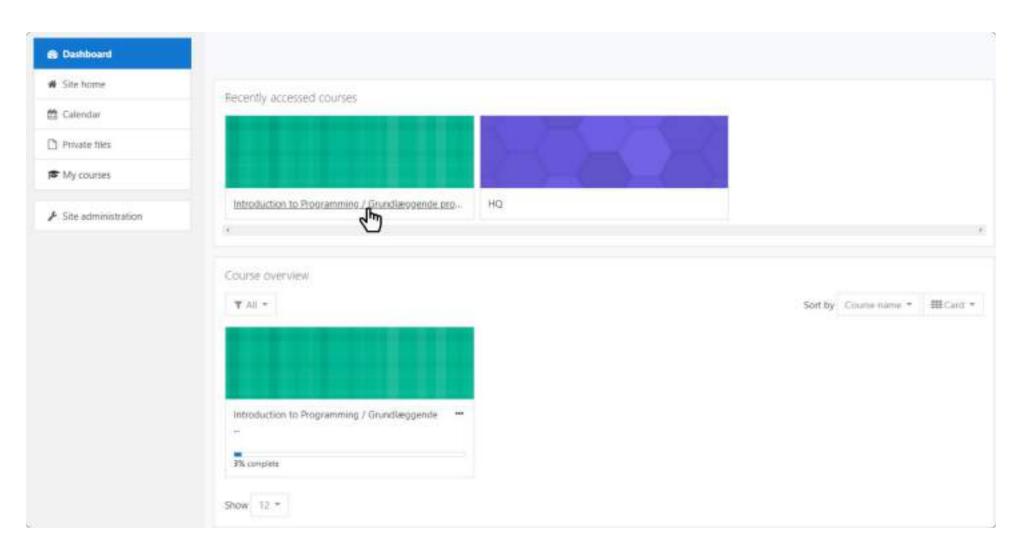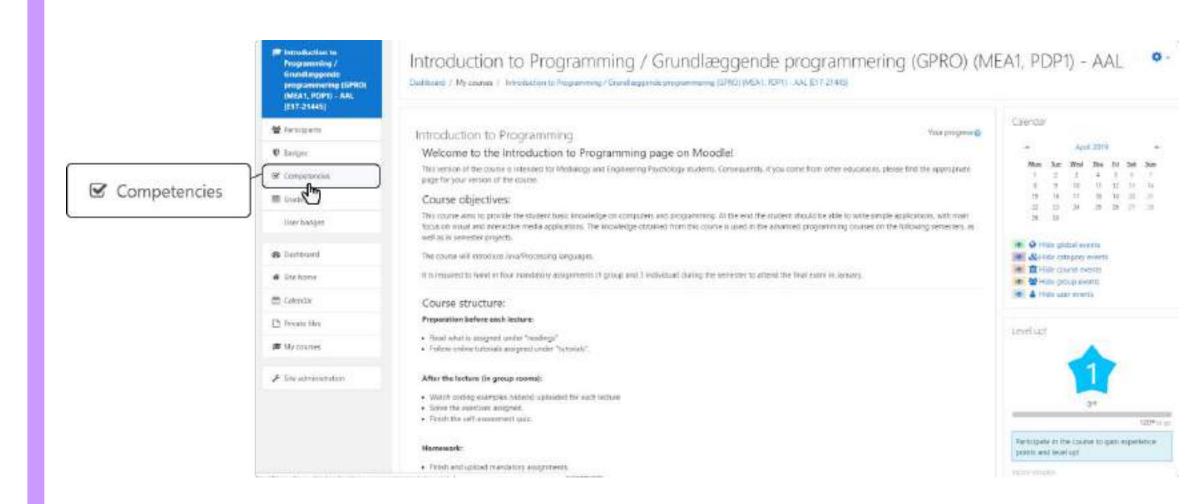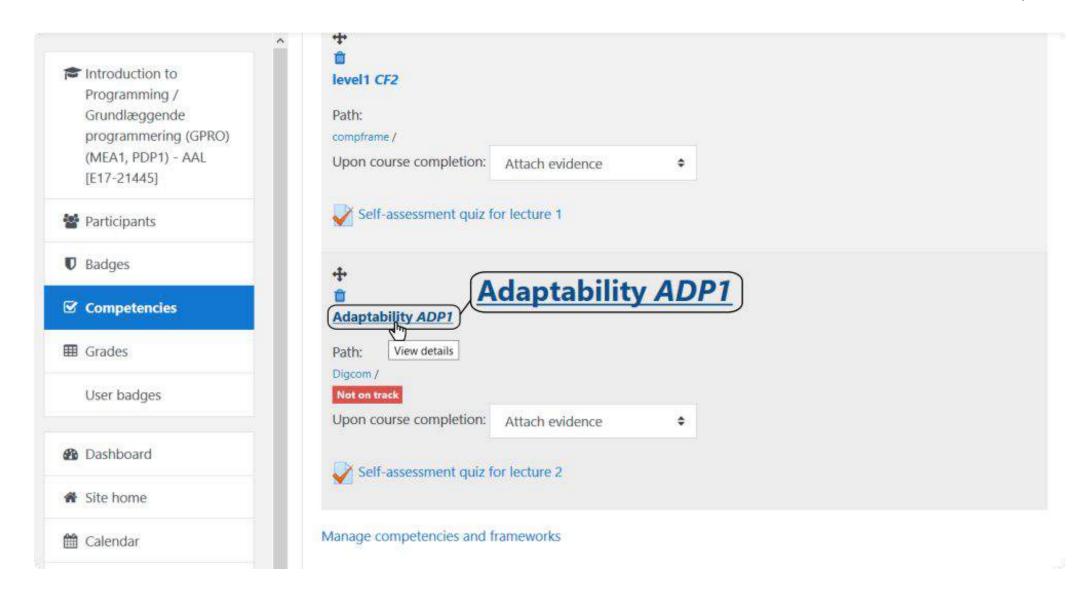- Create learning plans

Students

- Earn badges through activity completion
- Download badges/ connect to backpack
- Share badges
- Complete competencies
- Earn badges through competencies
- Attach evidence /students
- Review manual evidence/teachers
- **Review automated evidence/teachers**

Competencies

Jump to competency ▼

level1 CF2

compframe - Competency

Path: compframe /

Cross-referenced competencies:

No other competencies have been cross-referenced to this competency.

Activities

Self-assessment quiz for lecture 1

Proficient

No

Rating

- Rate

Evidence

Friday, 10 May 2019, 9:03 AM

The activity 'Self-assessment quiz for lecture 1' was completed.

https://hk.moodle.aau.dk/mod/quiz/view.php?id=26

https://hk.moodle.aau.dk/mod/quiz/view.php?id=26