

Handbook for participants of the e-learning course “Sustainable forest management: From theory to practice”

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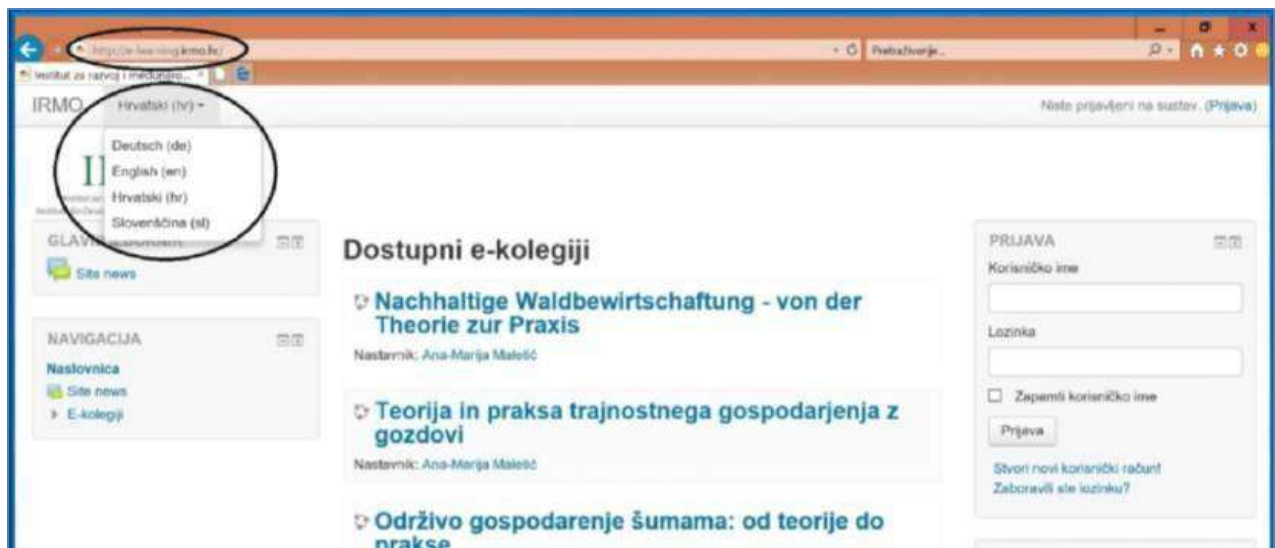
Introduction

The purpose of a Handbook is to provide guidance how to use Learning Management System LMS, how to access e-courses published in LMS, how to use forum, solve quizzes and how to monitor personal progress at a user profile.

Erasmus+ project partners created a course “Sustainable forest management: From theory to practice” and published online to be publicly available. Any interested person can participate. The only request is to have an account, which can be self-created on a e-learning platform.

Main page

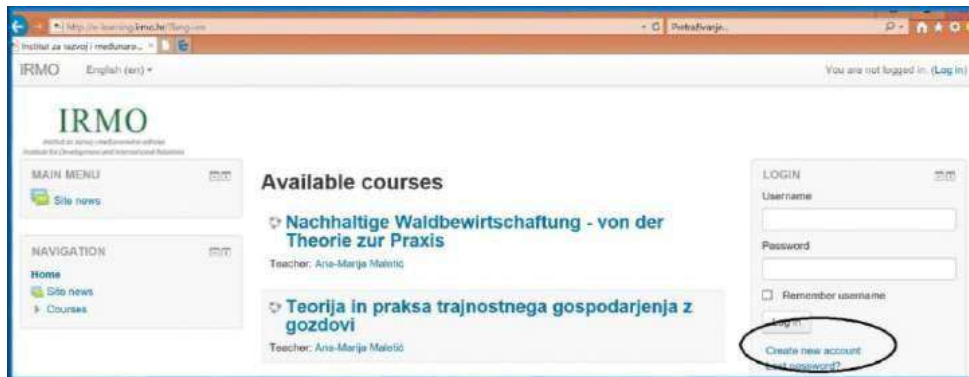
The address of a LMS is e-learning.irmo.hr. User face can be in different languages, we will choose English from a dropdown menu.



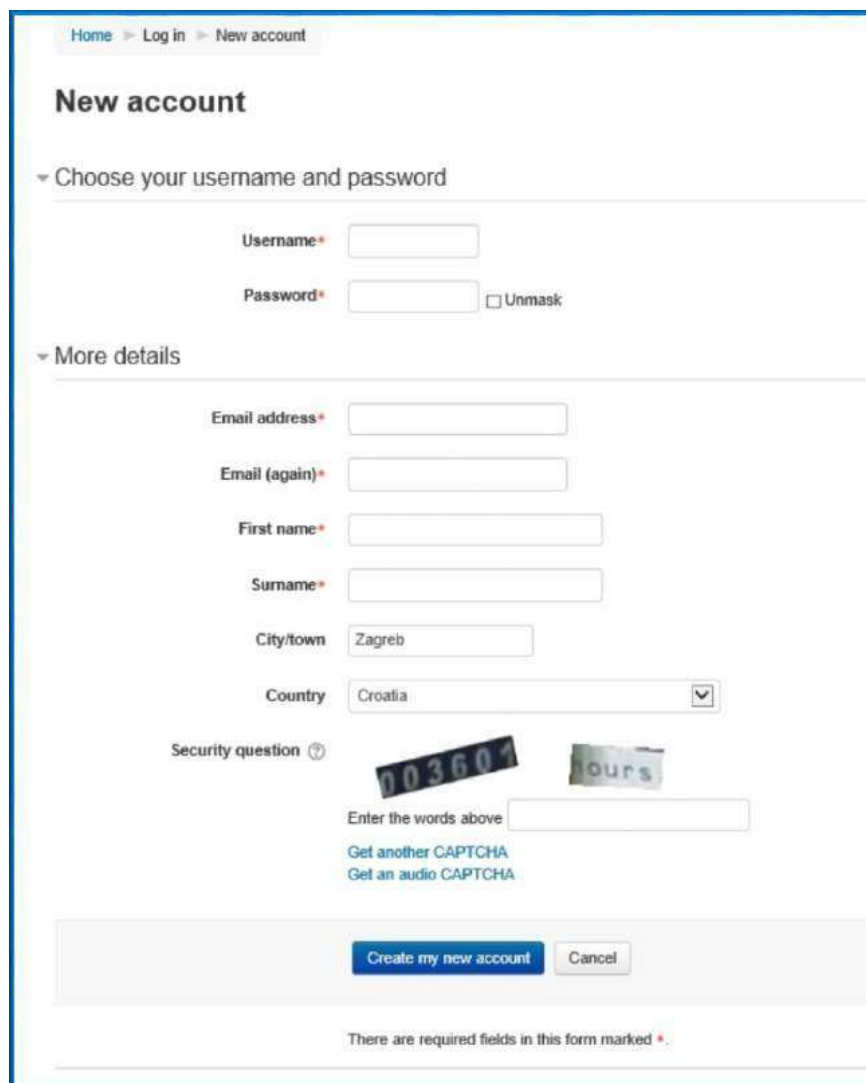
Authentication

On the main page we can see a list of available courses. To enter any course, **it is needed to be logged in**. If you do not already have an account, you can create it; see a link on a picture below.

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Email address, among others, is required to be able to create an account:



To finish creating a new account, you will receive **an automatic e-mail with a link for a confirmation**. After confirmation, a new student account is created and you will get a following message on a screen:

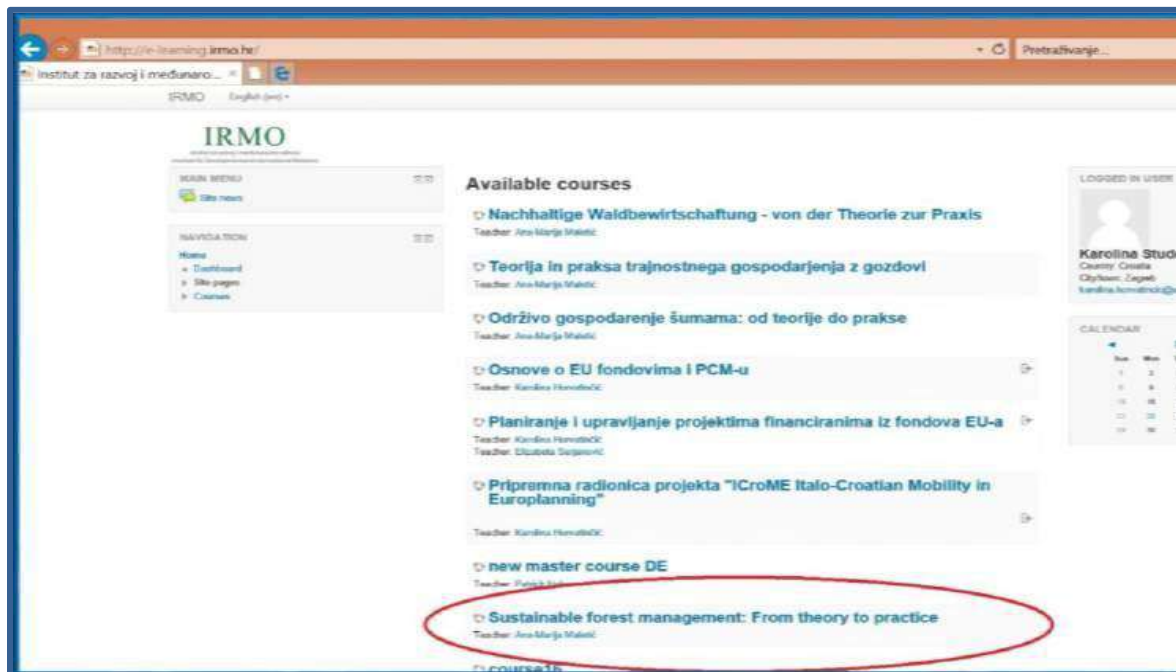
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Now you can login with your new account. After logging in, you will be able to enter a course.

Entering a course

To enter a course, please choose a title: **Sustainable forest management: From theory to practice**.



This course offers a **self-enrolment**. There is no additional key or password to enroll a course:

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The screenshot shows the course enrollment page. At the top, the breadcrumb trail reads: Home > Courses > Education > SFM: From theory to practice > Enrol me in this course > Enrolment options. On the left, there are two main navigation boxes: 'NAVIGATION' with links to Home, Dashboard, Site pages, Current course (SFM: From theory to practice), and Courses; and 'ADMINISTRATION' with links to Course administration and Enrol me in this course. The main content area is titled 'Enrolment options' and shows the course name and teacher (Ana-Marija Moletić). A 'Self enrolment (Student)' section contains the text 'No enrolment key required.' and a prominent blue 'Enrol me' button, which is circled in red. At the bottom, it indicates the user is logged in as 'Karolina Student'.

Navigation

Once enrolled, a student has three columns on the page. On the left side, you can see the following boxes: Navigation, Administration, Activities, My courses, and latest Badges. In the middle, there is course content at the first opening. Later on, the content will depend on a chosen option, i.e. Profile information. And on the right, there are the following boxes: Search forums, latest announcements, upcoming events, and recent activity.

The screenshot shows the course content page. The breadcrumb trail is: Home > Education > SFM: From theory to practice. The left sidebar contains the same navigation and administration boxes as the enrollment page, plus 'ACTIVITIES' (Assignments, Forums, Lessons, Quizzes, Resources) and 'MY COURSES' (Sustainable forest management: From theory to practice). The main content area is titled 'Introduction' and contains text about forest sector challenges, SFM objectives, and educational goals. Below the text are images of a forest. On the right, there are several utility boxes: 'SEARCH FORUMS' with an input field and 'Go' button; 'LATEST ANNOUNCEMENTS' with a link to 'modified silviculture in germany'; 'UPCOMING EVENTS' with a 'There are no upcoming events' message; 'RECENT ACTIVITY' with a link to 'Activity since Saturday, 21 October 2017, 2:26 AM'; and 'TEST' with a link to 'about'.

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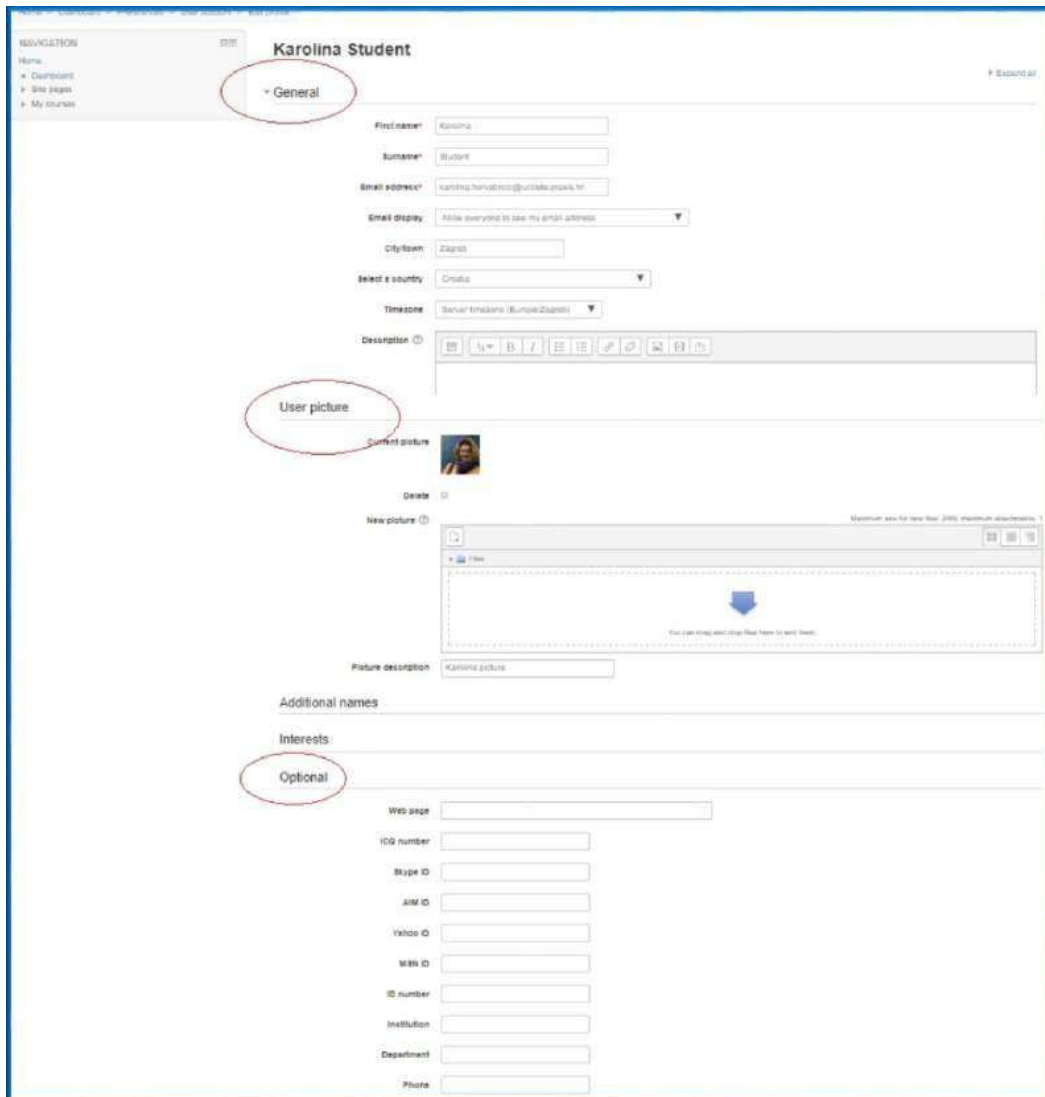
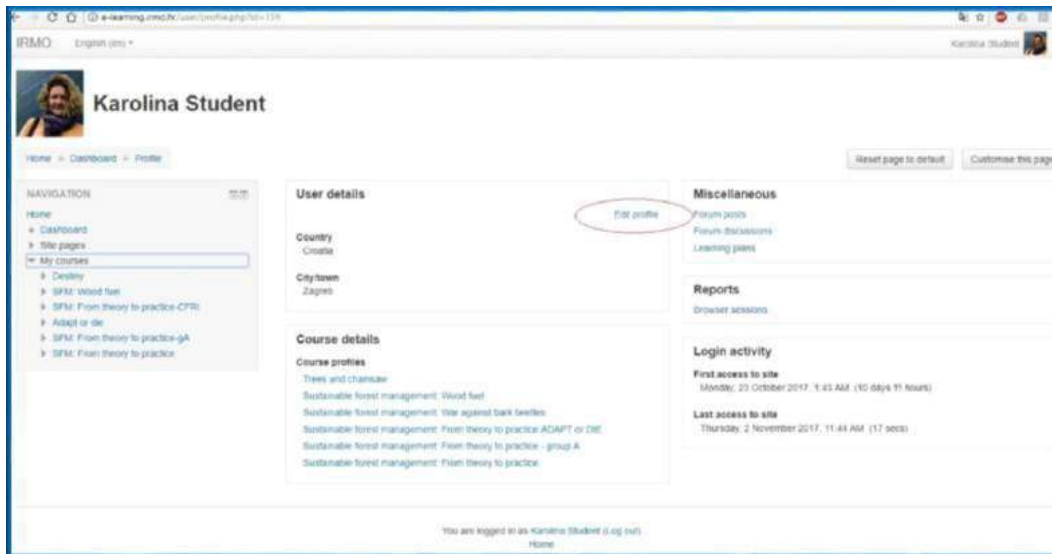
When you click on a link with a course name, content will be expanded and you can directly reach any part of a course, without a need to scroll the page down.

Student Profile

Before starting with learning, we will arrange our profile:

Here you can **edit profile**, go to your personal data, i.e. set your picture, add contact data, etc.

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To return to a course, you can use Home link or My courses:

The screenshot shows the user profile page for Karolina Student. In the left-hand navigation menu, the 'My courses' link is circled in red. Below it, several course titles are listed, with 'SFM: From theory to practice' also circled in red. The main content area displays 'User details' (Country: Croatia, City/town: Zagreb) and 'Course details' (listing various forest management topics).

User report

For the tasks needed to be done during a course, and for the grades a student receives during a course, there is a user report reachable from the link in an Administration part of the page:

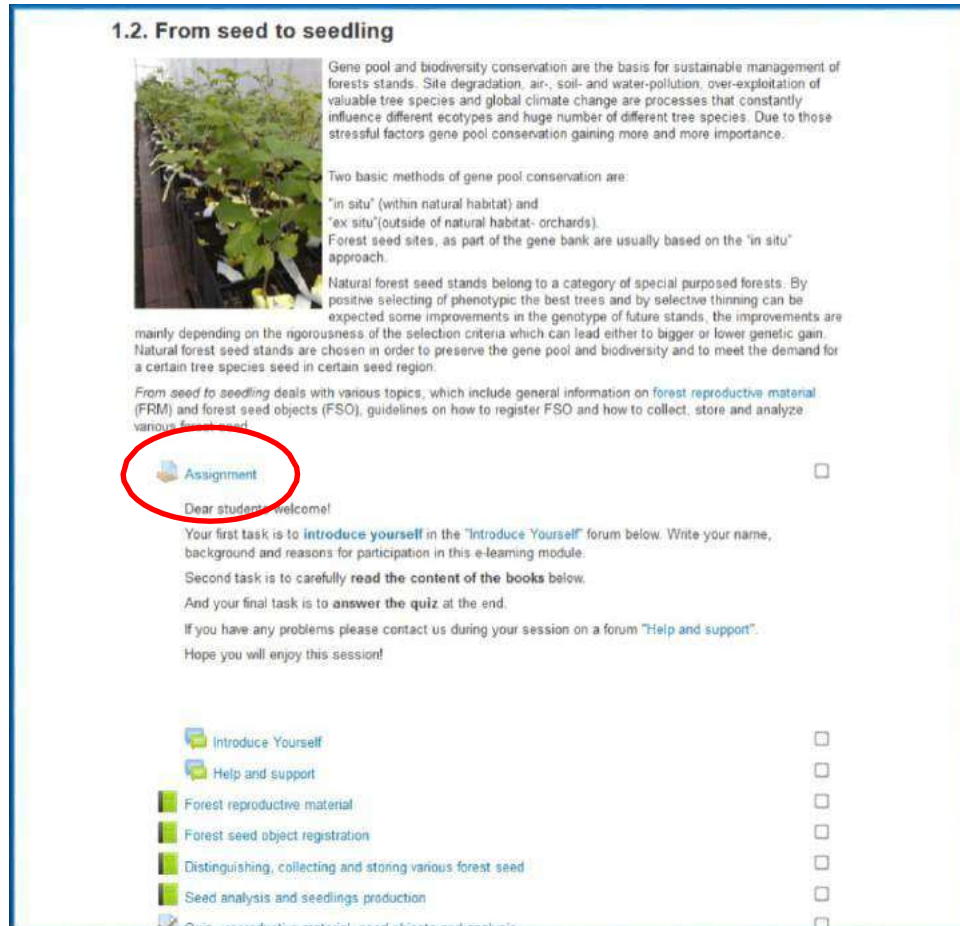
The screenshot shows the 'User report' page for Karolina Student. The 'User report' link in the Administration menu is circled in red. The page displays a table of course items with columns for Grade item, Calculated weight, Grade, Range, Percentage, Feedback, and Contribution to course total.

Grade item	Calculated weight	Grade	Range	Percentage	Feedback	Contribution to course total
Sustainable forest management: From theory to practice						
Understand nutrient cycling in forests	-	-	0-100	-	-	-
Growth limiting factors	-	-	0-100	-	-	-
A case of practice in communication and networking	-	-	0-10	-	-	-
Project concept - group task	-	-	Not yet competent-Competent	-	-	-
Group assignment - 1 submission	-	-	Not yet competent-Competent	-	-	-
Test Bark beetles	-	-	0-5	-	-	-
Quiz	-	-	0-10	-	-	-
Course total Simple weighted mean of grades	-	-	0-100	-	-	-

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Assignments

After you find a desired Topic and read the foreword of the Topic. Find the Assignment. If there is no Assignment button, you can read the material and take a test, if there is any.



1.2. From seed to seedling

Gene pool and biodiversity conservation are the basis for sustainable management of forests stands. Site degradation, air-, soil- and water-pollution, over-exploitation of valuable tree species and global climate change are processes that constantly influence different ecotypes and huge number of different tree species. Due to those stressful factors gene pool conservation gaining more and more importance.

Two basic methods of gene pool conservation are:

- "in situ" (within natural habitat) and
- "ex situ" (outside of natural habitat- orchards).

Forest seed sites, as part of the gene bank are usually based on the "in situ" approach.

Natural forest seed stands belong to a category of special purposed forests. By positive selecting of phenotypic the best trees and by selective thinning can be expected some improvements in the genotype of future stands, the improvements are mainly depending on the rigoroussness of the selection criteria which can lead either to bigger or lower genetic gain. Natural forest seed stands are chosen in order to preserve the gene pool and biodiversity and to meet the demand for a certain tree species seed in certain seed region.

From seed to seedling deals with various topics, which include general information on forest reproductive material (FRM) and forest seed objects (FSO), guidelines on how to register FSO and how to collect, store and analyze various forest seed.

Assignment

Dear student, welcome!

Your first task is to **introduce yourself** in the "Introduce Yourself" forum below. Write your name, background and reasons for participation in this e-learning module.

Second task is to carefully **read the content of the books** below.

And your final task is to **answer the quiz** at the end.

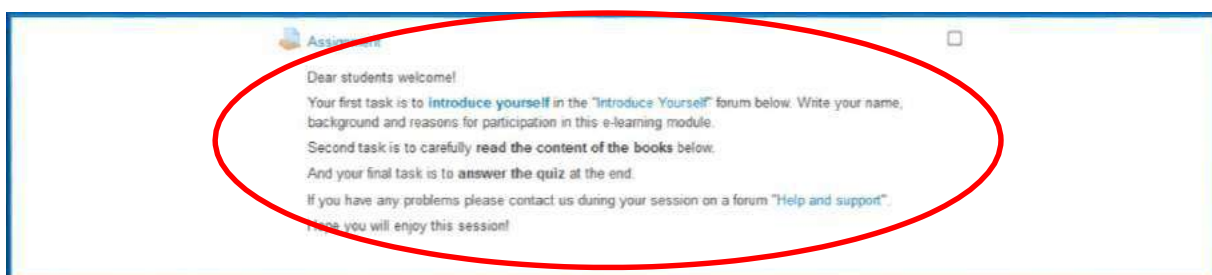
If you have any problems please contact us during your session on a forum "Help and support".

Hope you will enjoy this session!

- Introduce Yourself
- Help and support
- Forest reproductive material
- Forest seed object registration
- Distinguishing, collecting and storing various forest seed
- Seed analysis and seedlings production

The content of the assignment is often visible (as in this example), if not, click on the Assignment to see the content.

Read the content of the assignment and follow the instructions.



Assignment

Dear students welcome!

Your first task is to **introduce yourself** in the "Introduce Yourself" forum below. Write your name, background and reasons for participation in this e-learning module.

Second task is to carefully **read the content of the books** below.

And your final task is to **answer the quiz** at the end.

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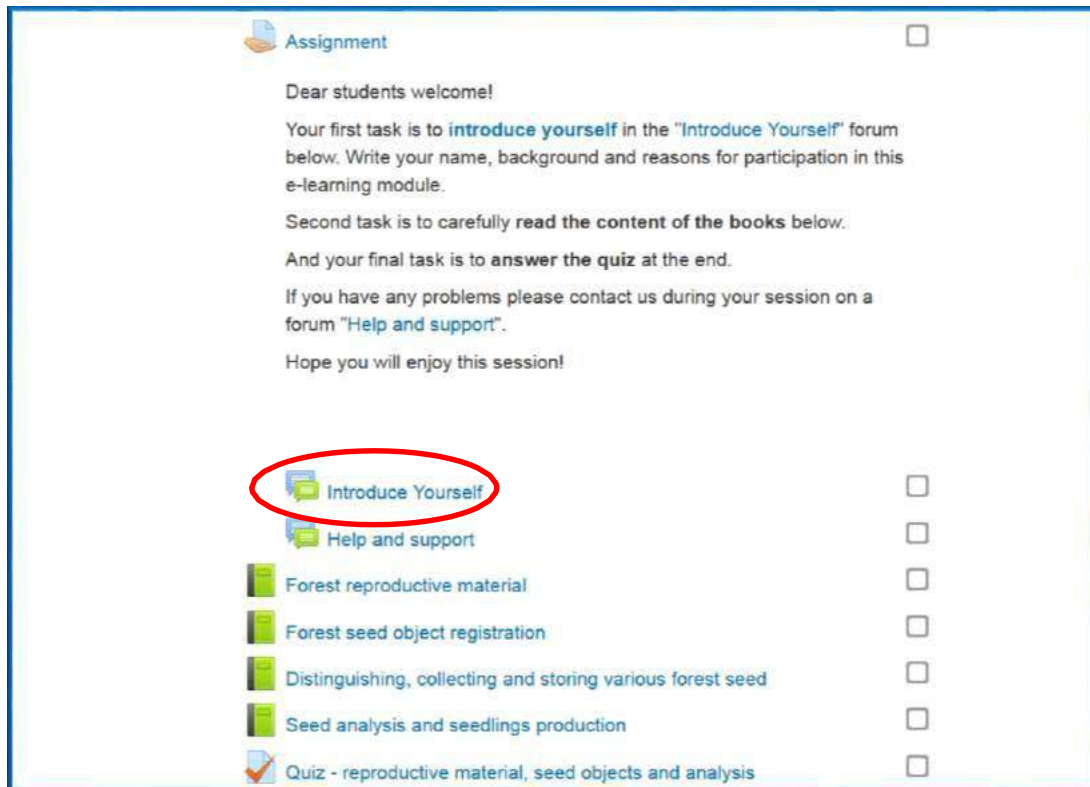
Forum

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How to enter a forum?

Usually the first assignment is to introduce yourself in the forum.

Click on the Forum.



The screenshot shows an assignment page with the following text:

Dear students welcome!

Your first task is to **introduce yourself** in the "Introduce Yourself" forum below. Write your name, background and reasons for participation in this e-learning module.

Second task is to carefully read the content of the books below.

And your final task is to **answer the quiz** at the end.

If you have any problems please contact us during your session on a forum "Help and support".

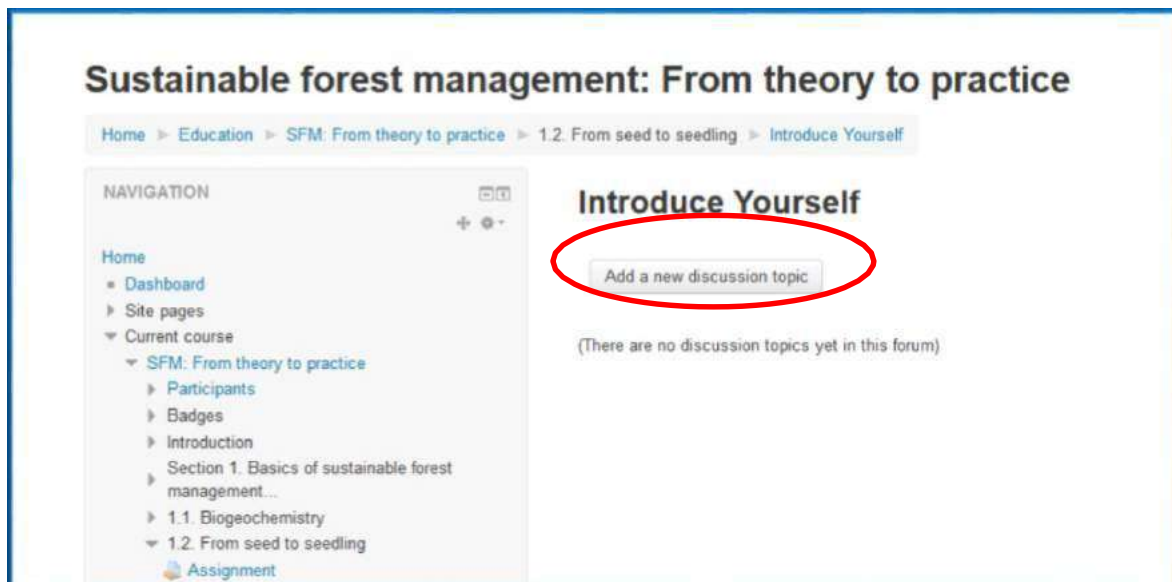
Hope you will enjoy this session!

Below the text is a list of forum topics, each with a checkbox to its right:

- Introduce Yourself** (checkbox)
- Help and support (checkbox)
- Forest reproductive material (checkbox)
- Forest seed object registration (checkbox)
- Distinguishing, collecting and storing various forest seed (checkbox)
- Seed analysis and seedlings production (checkbox)
- Quiz - reproductive material, seed objects and analysis (checkbox)

The "Introduce Yourself" topic is circled in red.

If you are the first one who entered, click on the Add a new discussion topic. Or if you want to add any other topic to discuss within this forum use this button.



The screenshot shows a forum page titled "Sustainable forest management: From theory to practice". The breadcrumb trail is: Home > Education > SFM: From theory to practice > 1.2. From seed to seedling > Introduce Yourself.

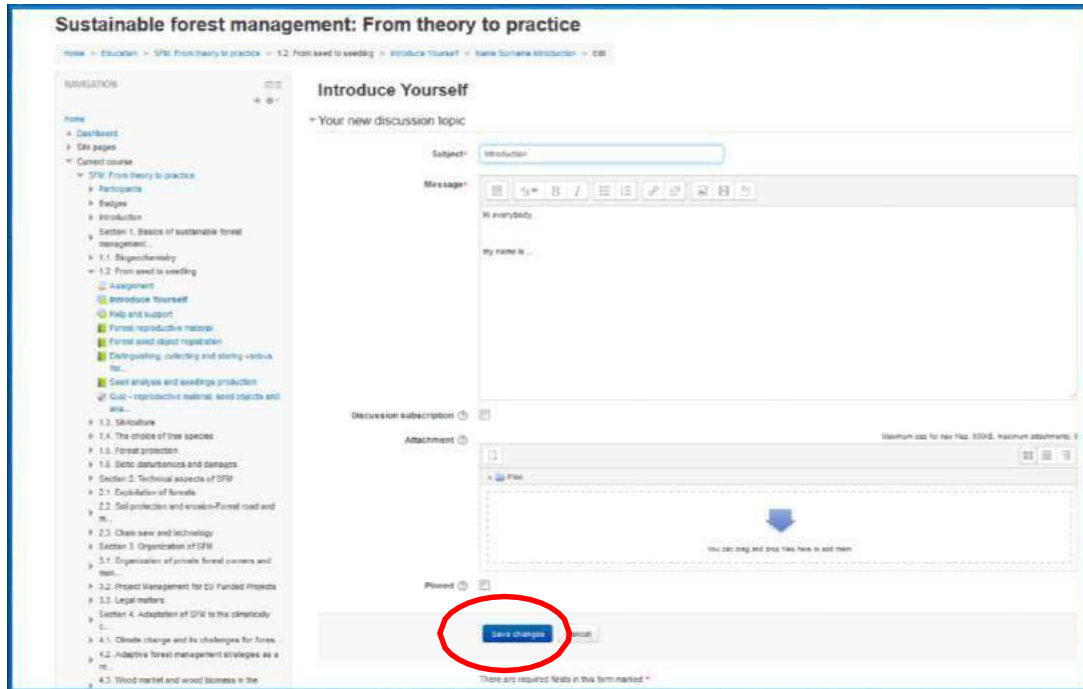
On the left is a navigation menu with the following items:

- Home
 - Dashboard
 - Site pages
 - Current course
 - SFM: From theory to practice
 - Participants
 - Badges
 - Introduction
 - Section 1. Basics of sustainable forest management...
 - 1.1. Biogeochemistry
 - 1.2. From seed to seedling
 - Assignment

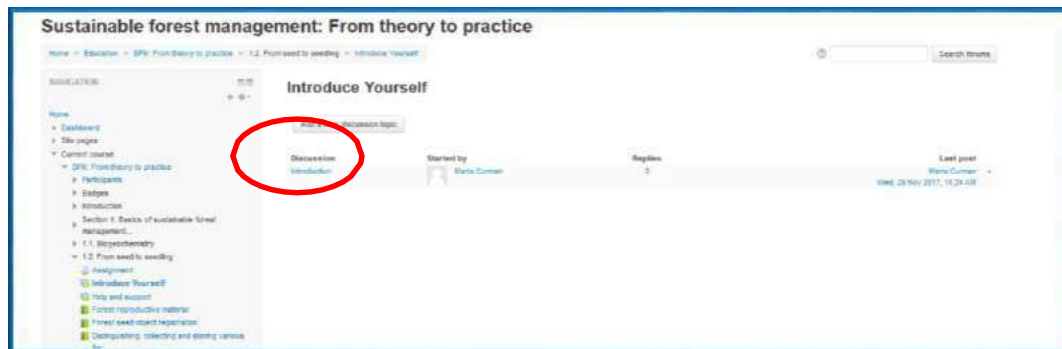
The main content area is titled "Introduce Yourself" and contains a button labeled "Add a new discussion topic", which is circled in red. Below the button, it says "(There are no discussion topics yet in this forum)".

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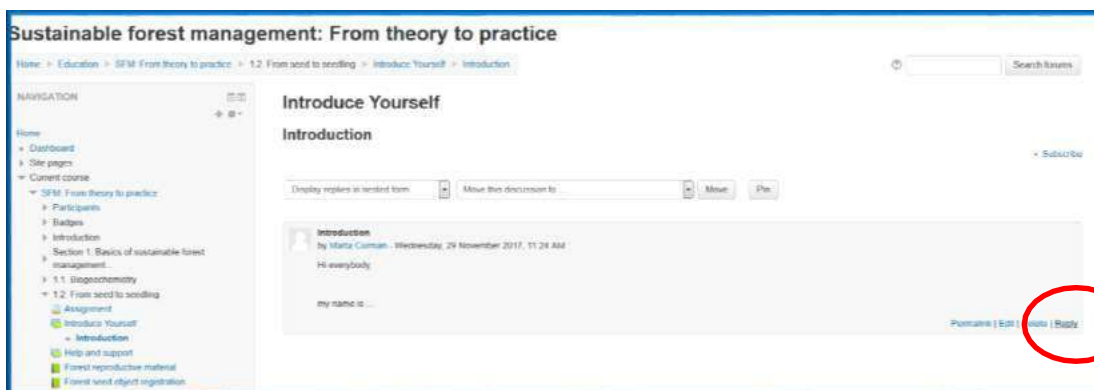
Here you can write about yourself. After you write it, click Post to forum.



Or in case somebody already posted something you should click on the Title of the existing post.



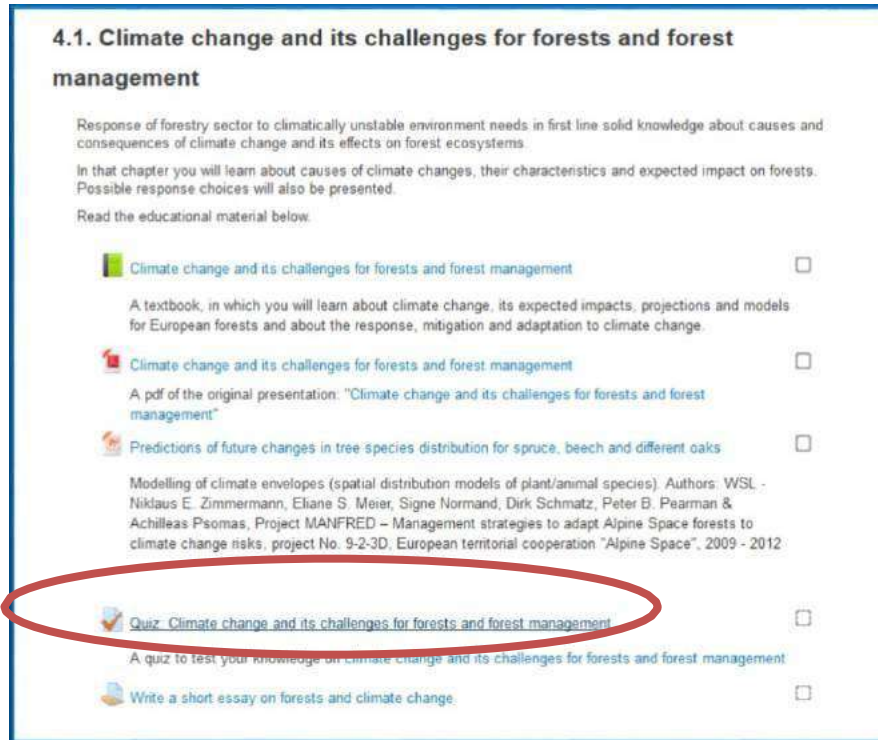
Then click on reply in order to reply to existing one.



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Reviewing - taking a quiz

1. To take a quiz, select (click on) a quiz in the educational material.



4.1. Climate change and its challenges for forests and forest management

Response of forestry sector to climatically unstable environment needs in first line solid knowledge about causes and consequences of climate change and its effects on forest ecosystems.

In that chapter you will learn about causes of climate changes, their characteristics and expected impact on forests. Possible response choices will also be presented.

Read the educational material below:

- Climate change and its challenges for forests and forest management**
A textbook, in which you will learn about climate change, its expected impacts, projections and models for European forests and about the response, mitigation and adaptation to climate change.
- Climate change and its challenges for forests and forest management**
A pdf of the original presentation: "Climate change and its challenges for forests and forest management"
- Predictions of future changes in tree species distribution for spruce, beech and different oaks**
Modelling of climate envelopes (spatial distribution models of plant/animal species). Authors: WSL - Niklaus E. Zimmermann, Eliane S. Meier, Signe Normand, Dirk Schmatz, Peter B. Pearman & Achilleas Psomas, Project MANFRED – Management strategies to adapt Alpine Space forests to climate change risks, project No. 9-2-3D, European territorial cooperation "Alpine Space", 2009 - 2012
- Quiz: Climate change and its challenges for forests and forest management**
A quiz to test your knowledge on climate change and its challenges for forests and forest management
- Write a short essay on forests and climate change.**

2. After clicking on the quiz, a new window will open, with the option to **Attempt quiz now**. Click the button to begin the quiz.



Sustainable forest management: From theory to practice

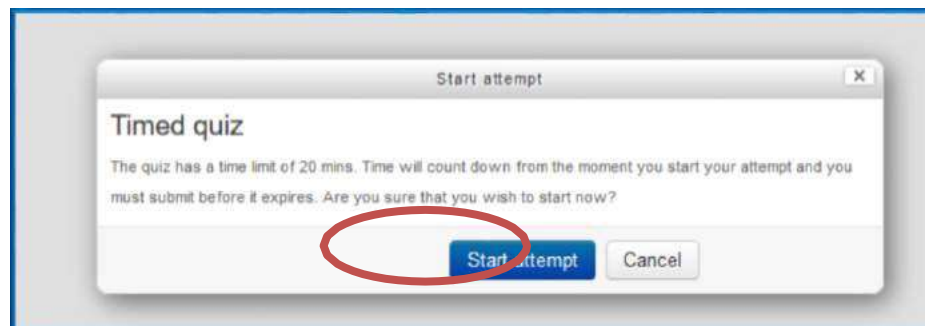
Home > Education > SFM: From theory to practice > 4.1. Climate change and its challenges for forests > Quiz: Climate change and its challenges for forest...

Quiz: Climate change and its challenges for forests and forest management

A quiz to test your knowledge on climate change and its challenges for forests and forest management

Time limit: 20 mins
Grading method: Highest grade
Attempt quiz now

3. If the quiz has a time limit, a window will pop-up, notifying you about the time limit.



Start attempt

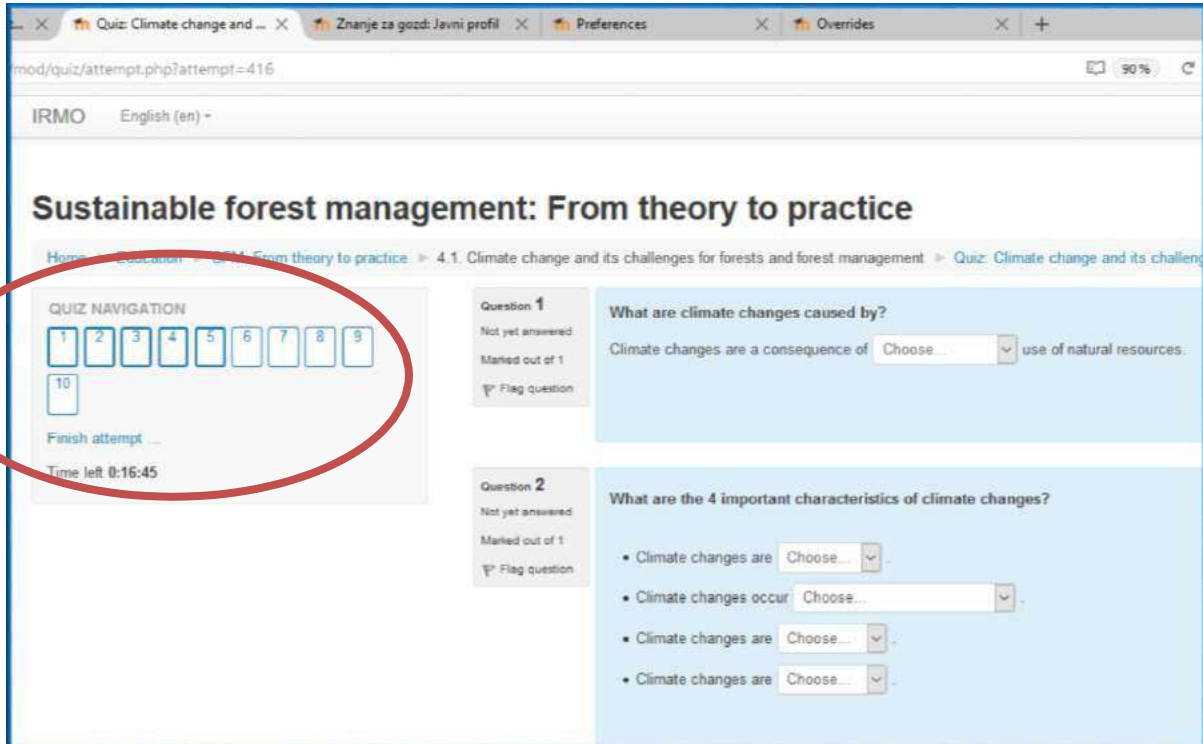
Timed quiz

The quiz has a time limit of 20 mins. Time will count down from the moment you start your attempt and you must submit before it expires. Are you sure that you wish to start now?

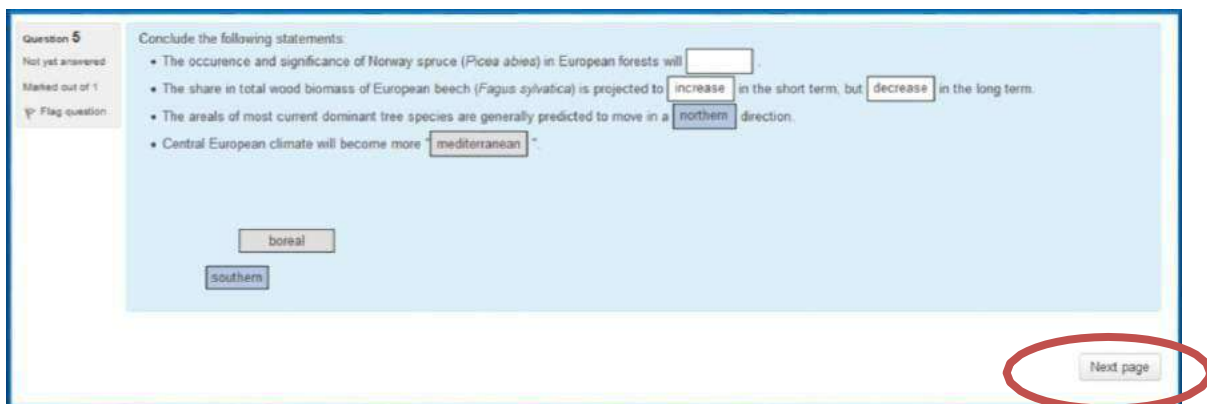
Start attempt Cancel

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- Click »**Start attempt**« to begin the quiz.
- The quiz (questionnaire) will open. Answer the questions to complete the quiz. Use the »**Quiz navigation**« toolbar to keep track of your submissions and time.



- Click the **next page** button to continue solving the quiz on the next page.

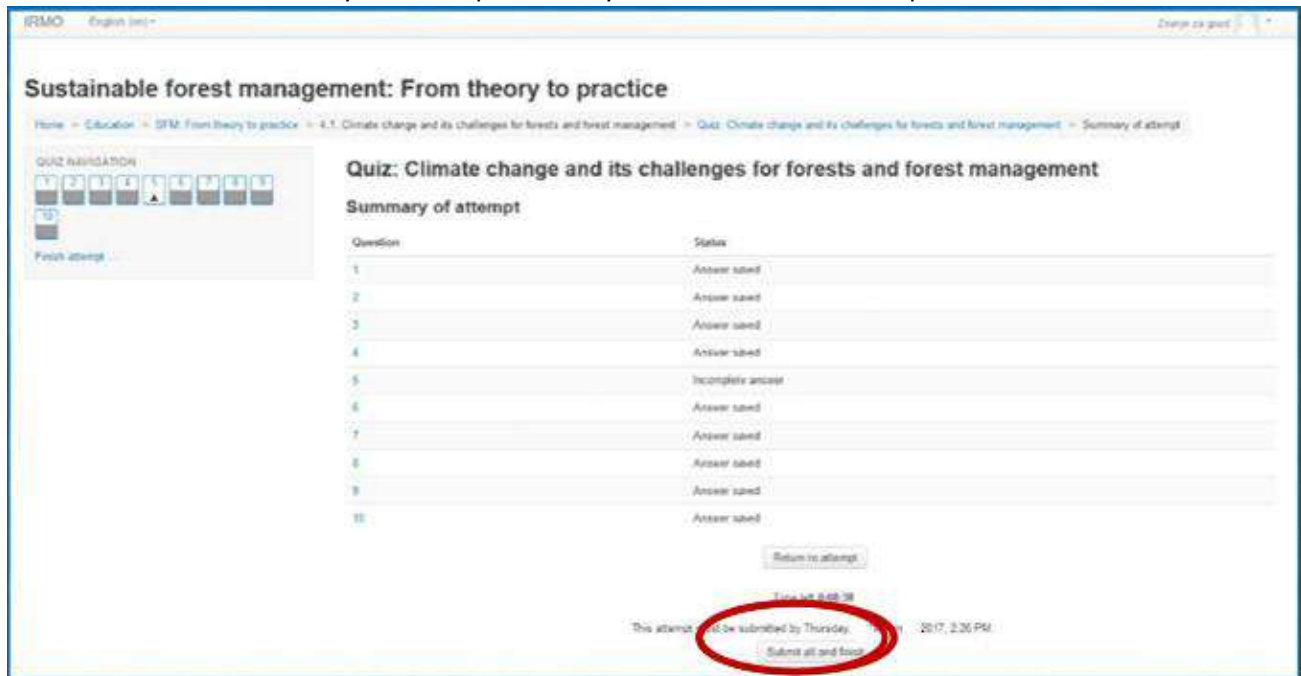


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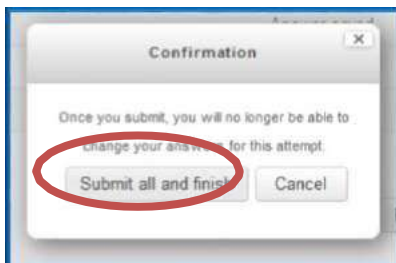
7. When you are done solving the quiz, click the »Finish attempt« button.



8. After finishing your attempt, a summary of the attempt will be displayed. Click »Submit all and finish« to evaluate your attempt. You may also return to the attempt.

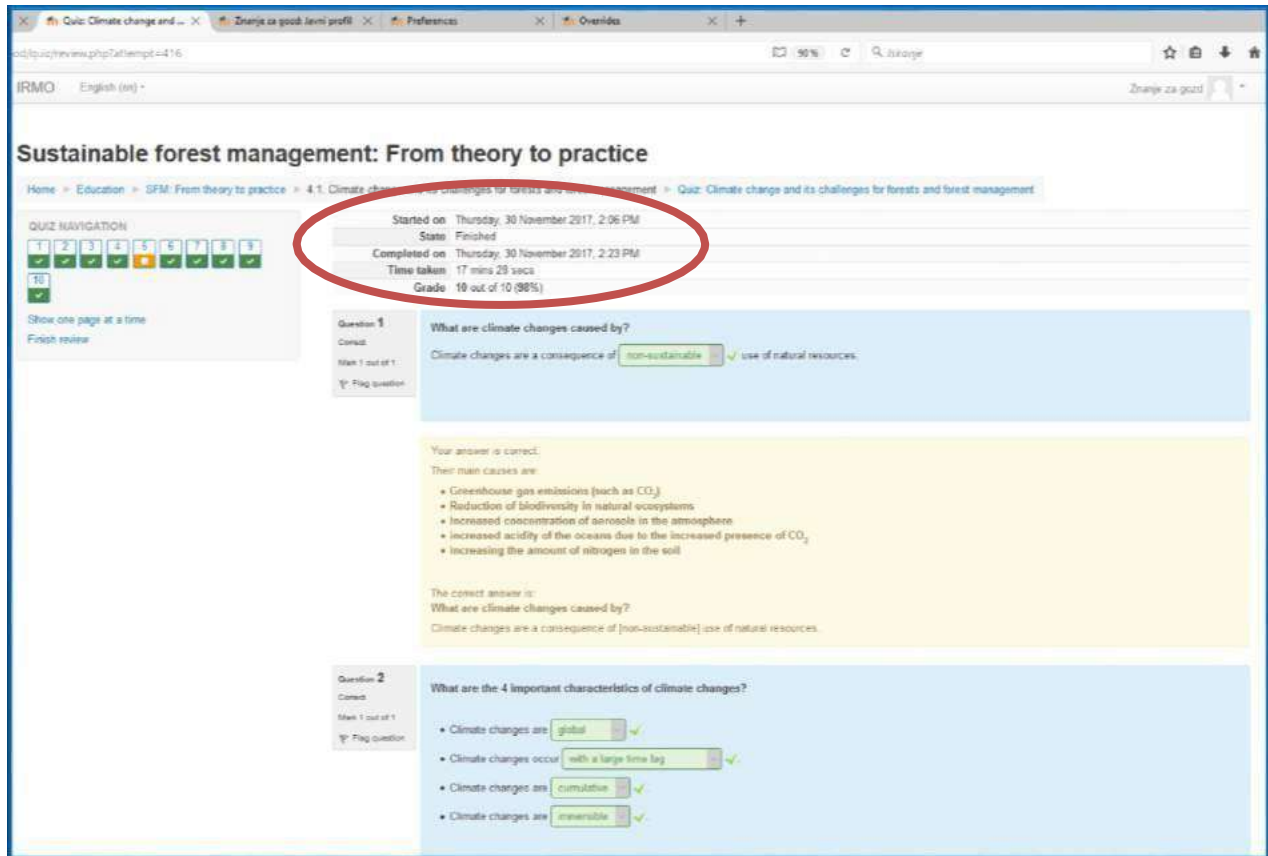


9. After clicking the button, confirm your choice.



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10. Read the review of your quiz. If there are questions to be manually graded, you will receive your review with a time delay. Your grade and other statistics are marked on the image below.



11. Click »Finish review« at the bottom-right of the page to receive a summary of your attempt.



12. After clicking »finish review«, you will be taken to the summary of your attempts. You may also re-attempt the quiz by clicking on the button, marked below.

