

Handbook for participants of the e-course "Forest based bioeconomy"

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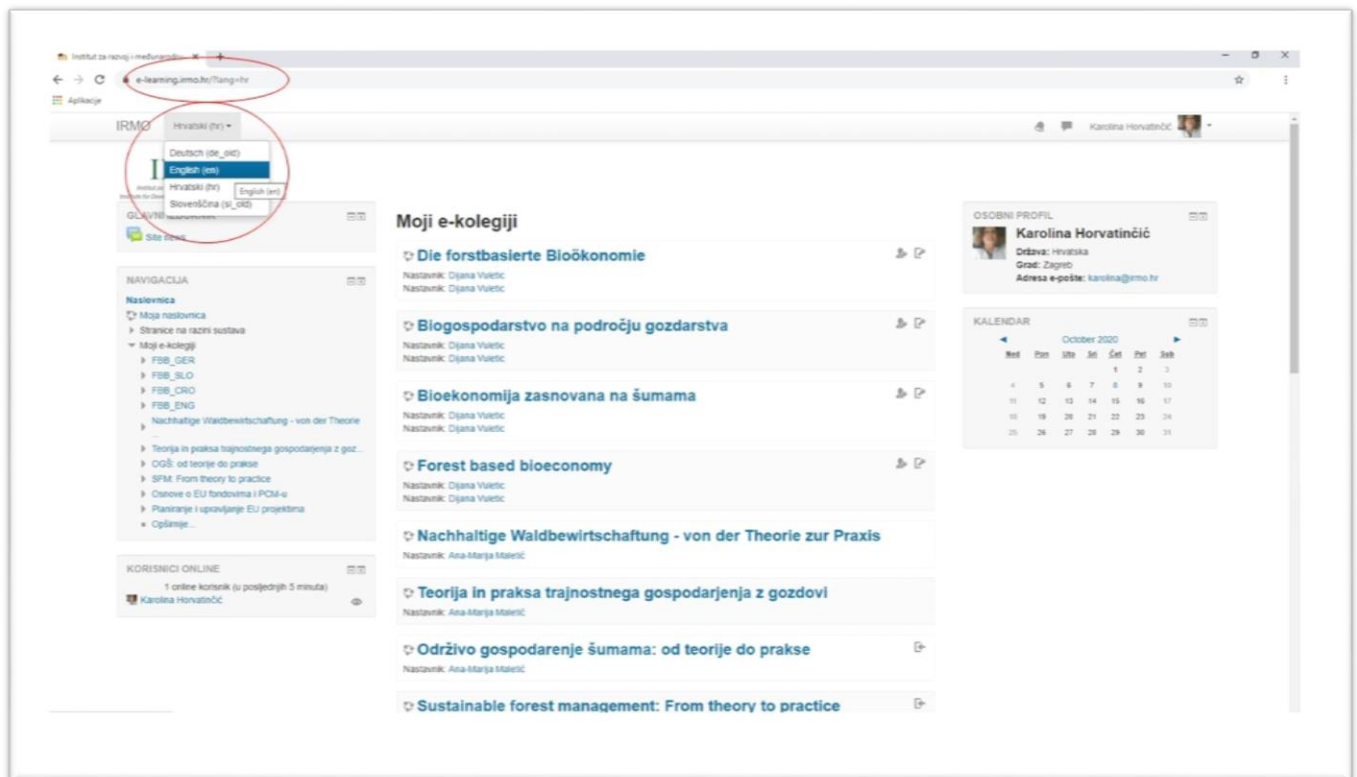
Introduction

The purpose of the 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 an online course “Forest based bioeconomy” 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

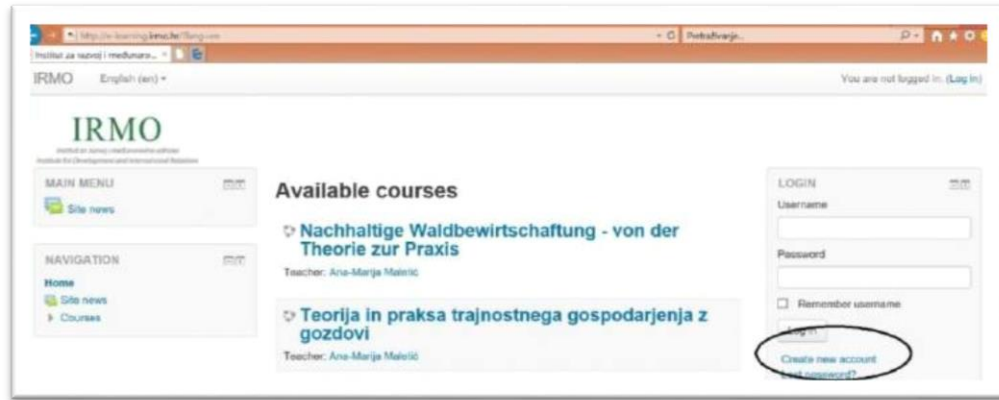
The address of a LMS is e-learning.irmo.hr. User face can be in different languages, we will choose English from a dropdown menu.



The screenshot shows the LMS interface. At the top, the browser address bar displays 'e-learning.irmo.hr/Tiang/hr'. Below the address bar, a language dropdown menu is open, showing options: 'Hrvatski (hr)', 'Deutsch (de_de)', 'English (en)', 'Hrvatski (hr)', and 'Slovenska (sl_sl)'. The 'English (en)' option is selected. The main content area is titled 'Moji e-kolegiji' and lists several courses with their titles and instructors. On the right side, there is a user profile for 'Karolina Horvatičić' and a calendar for October 2020.

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.



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

A screenshot of the 'New account' registration form. The form is titled 'New account' and has a breadcrumb trail: 'Home > Log in > New account'. It is divided into two main sections: 'Choose your username and password' and 'More details'. The 'Choose your username and password' section contains fields for 'Username*' and 'Password*' with an 'Unmask' checkbox. The 'More details' section contains fields for 'Email address*', 'Email (again)*', 'First name*', 'Surname*', 'City/town' (with 'Zagreb' entered), and 'Country' (with 'Croatia' selected). Below these fields is a 'Security question' section with a CAPTCHA image showing the numbers '003601' and the word 'hours', and an input field for the answer. There are links for 'Get another CAPTCHA' and 'Get an audio CAPTCHA'. At the bottom of the form, there are two buttons: 'Create my new account' and 'Cancel'. A note at the bottom states: 'There are required fields in this form marked *.'

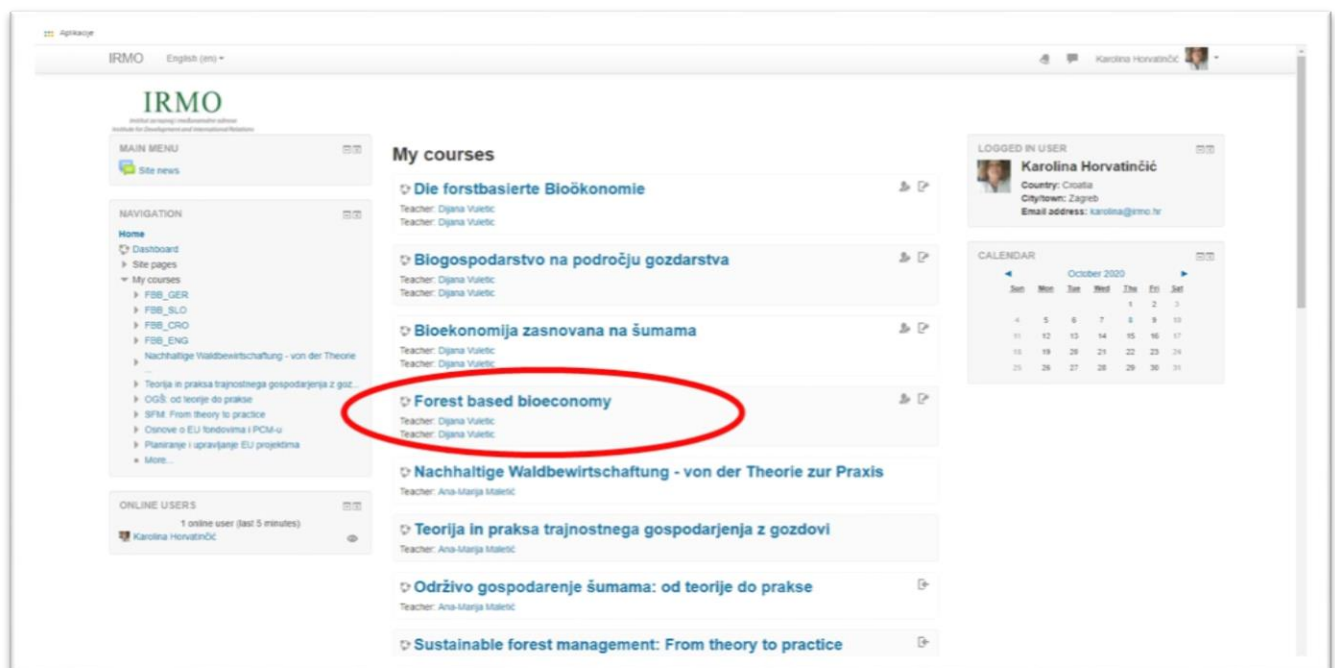
To finish creating a new account, you will receive **an automatic e-mail with a link for a confirmation**. After confirmation, a new student account is created and you will get a following message on a screen:



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

Entering a course

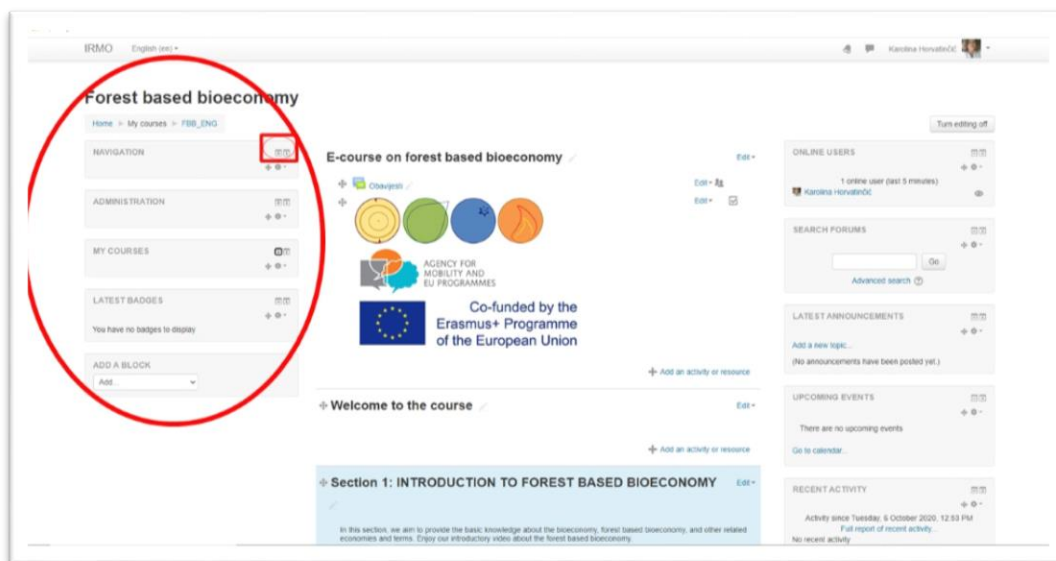
To enter a course, please choose a title: **Forest based bioeconomy**.



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

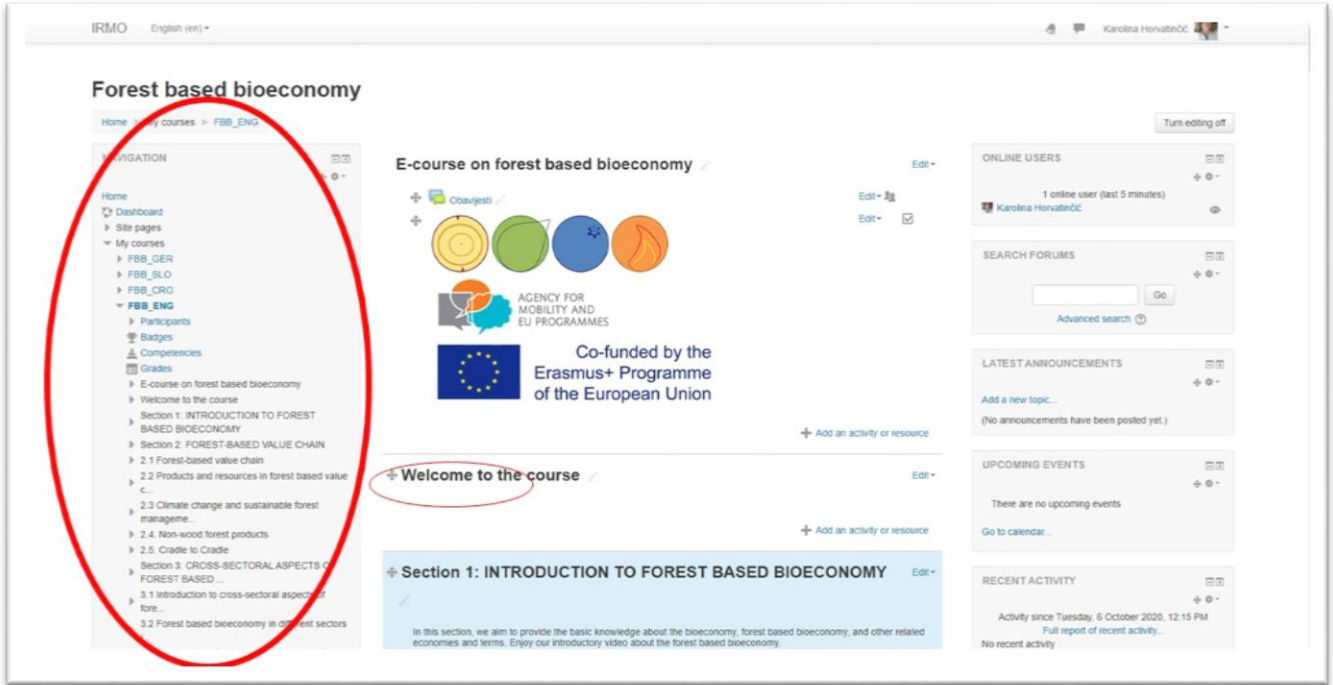
Navigation

Once enrolled, a student has three columns on the page. On the left side you can see following blocks (boxes): Navigation, Administration, Activities, My courses and Latest badges. By choosing the 'Show Navigation block' option (in red square) you can see the whole content of the block. In the middle, there is a course content at the first opening. Later on, a content will depend on a chosen option, i.e. Profile information. And on the right, there are following boxes: Search forums, latest announcements, upcoming events, etc.



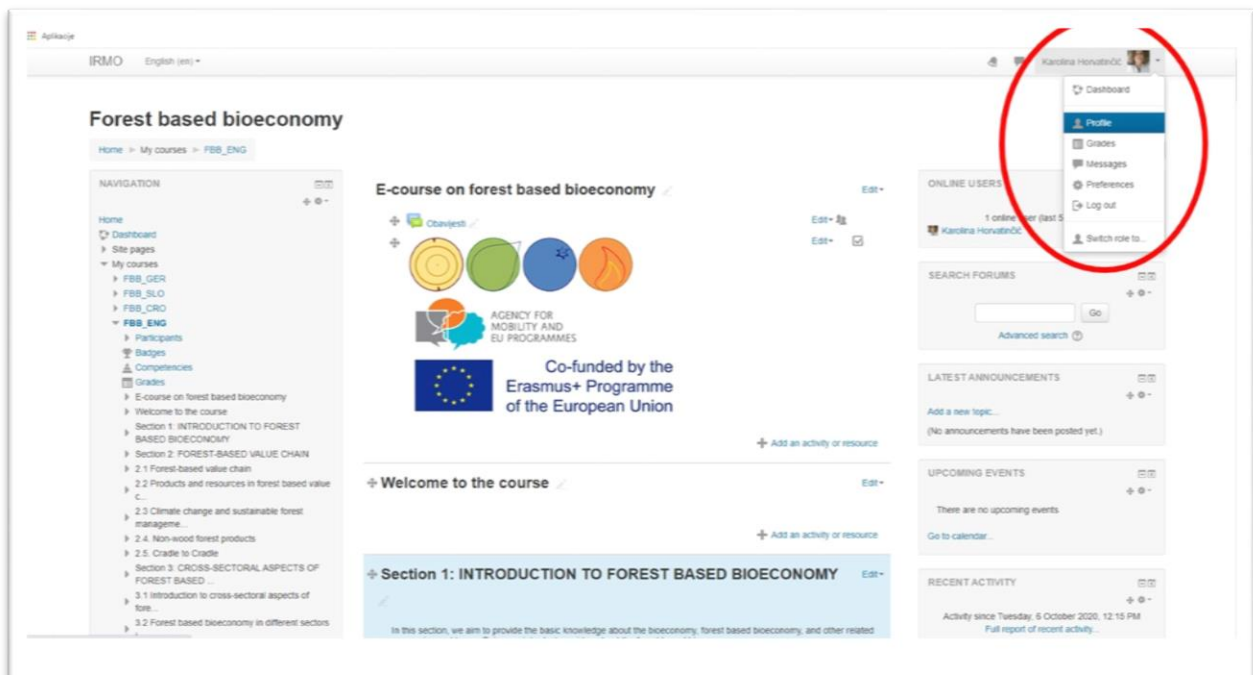
The screenshot shows a course page titled "Forest based bioeconomy" in the IRMO system. The left sidebar contains several blocks: "NAVIGATION" (highlighted with a red circle and a red square on its expand icon), "ADMINISTRATION", "MY COURSES", "LATEST BADGES", and "ADD A BLOCK". The main content area features a header for the course, a logo for the Agency for Mobility and EU Programmes, and a note that it is co-funded by the Erasmus+ Programme of the European Union. Below this is a "Welcome to the course" section and a section titled "Section 1: INTRODUCTION TO FOREST BASED BIOECONOMY". The right sidebar includes "ONLINE USERS", "SEARCH FORUMS", "LATEST ANNOUNCEMENTS", "UPCOMING EVENTS", and "RECENT ACTIVITY".

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.

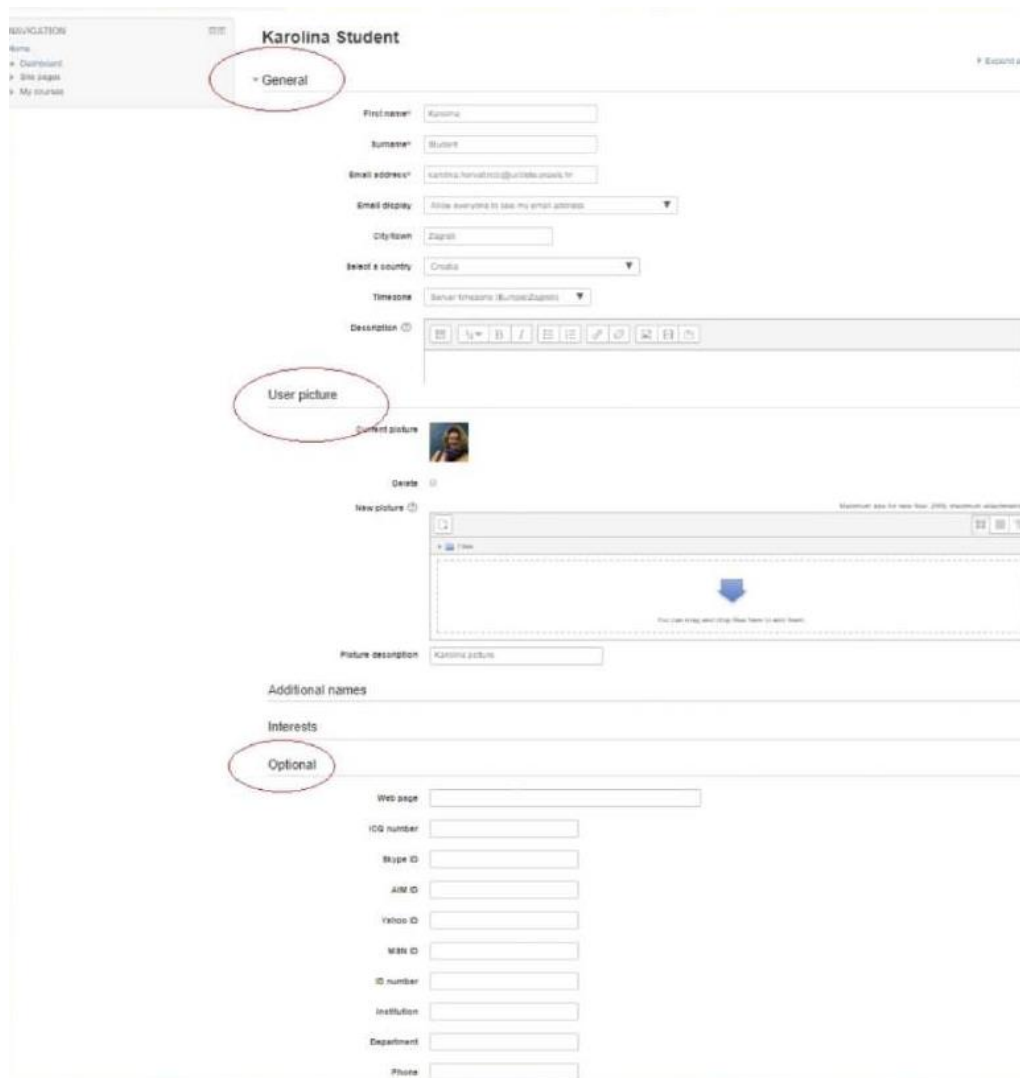
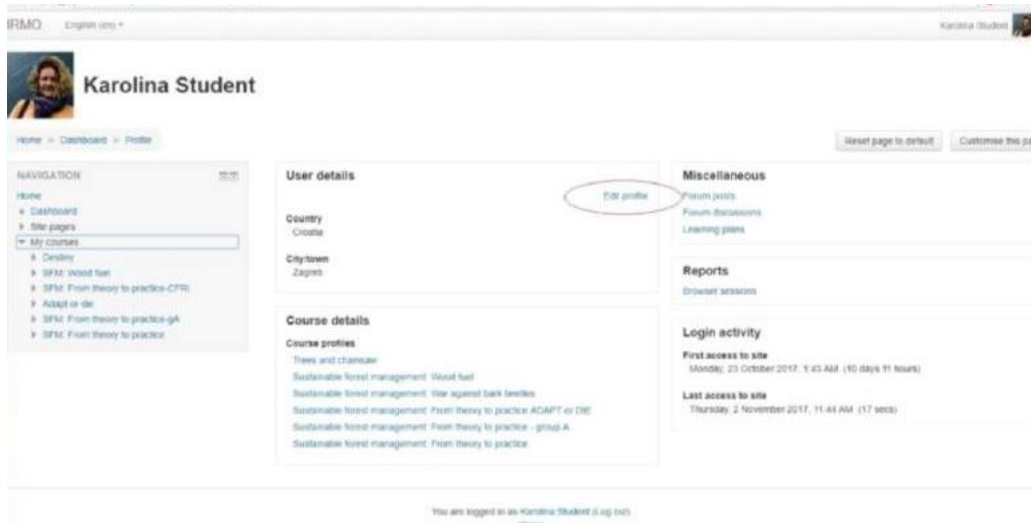


Student Profile

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.



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

The screenshot shows a user profile for Karolina Horvatinčić. The left-hand navigation menu includes 'Home', 'Dashboard', 'Site pages', 'My courses', and 'FBB_ENG' (circled in red). Other menu items include 'FBB_GER', 'FBB_SLO', and 'Nachhaltige Waldbewirtschaftung - von der Theorie zur Praxis'. The main content area displays 'User details' (Email address: karolina@irmo.hr, Country: Croatia, City/town: Zagreb), 'Privacy and policies', 'Course profiles', 'Miscellaneous', 'Reports', and 'Login activity'.





User report

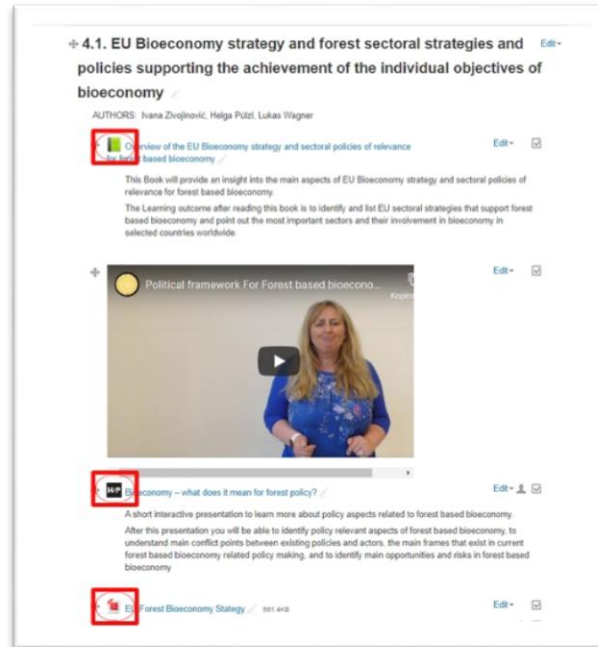
For the tasks needed to be done during a course, and for the grades a student receives during a course, there is a user report reachable from the link in an Administration part of the page:

The screenshot shows the 'User report' page for Karolina Student. The 'ADMINISTRATION' menu on the left has 'User report' circled in red. The main content area displays a table of course items and grades.

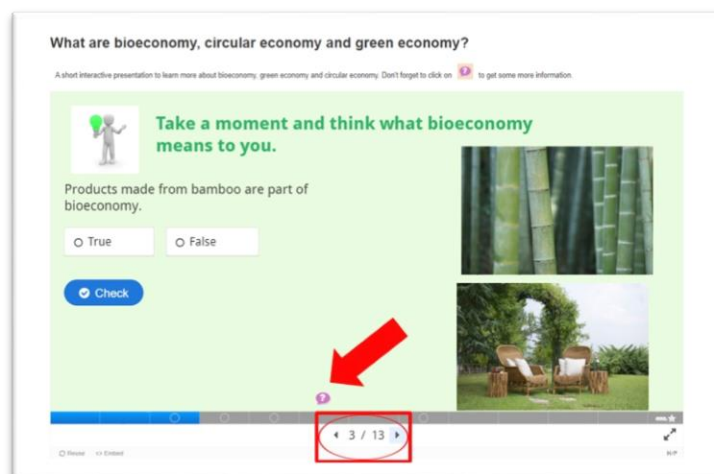
Grade item	Calculated weight	Grade	Range	Percentage	Feedback	Contribution to course total
Sustainable forest management: From theory to practice						
Understand nutrient cycling in forests	-	-	0-100	-	-	-
Growth limiting factors	-	-	0-100	-	-	-
A case of practice in communication and networking	-	-	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	-	-	0-100	-	-	-
Simple weighted mean of grades.						

Learning materials

The learning material of the e-course can be found in different forms: text, video, Interactive presentation  , Book  , Lesson  , and File  . In order to open them, click on the icon or the title of the specific topic and enjoy the material.

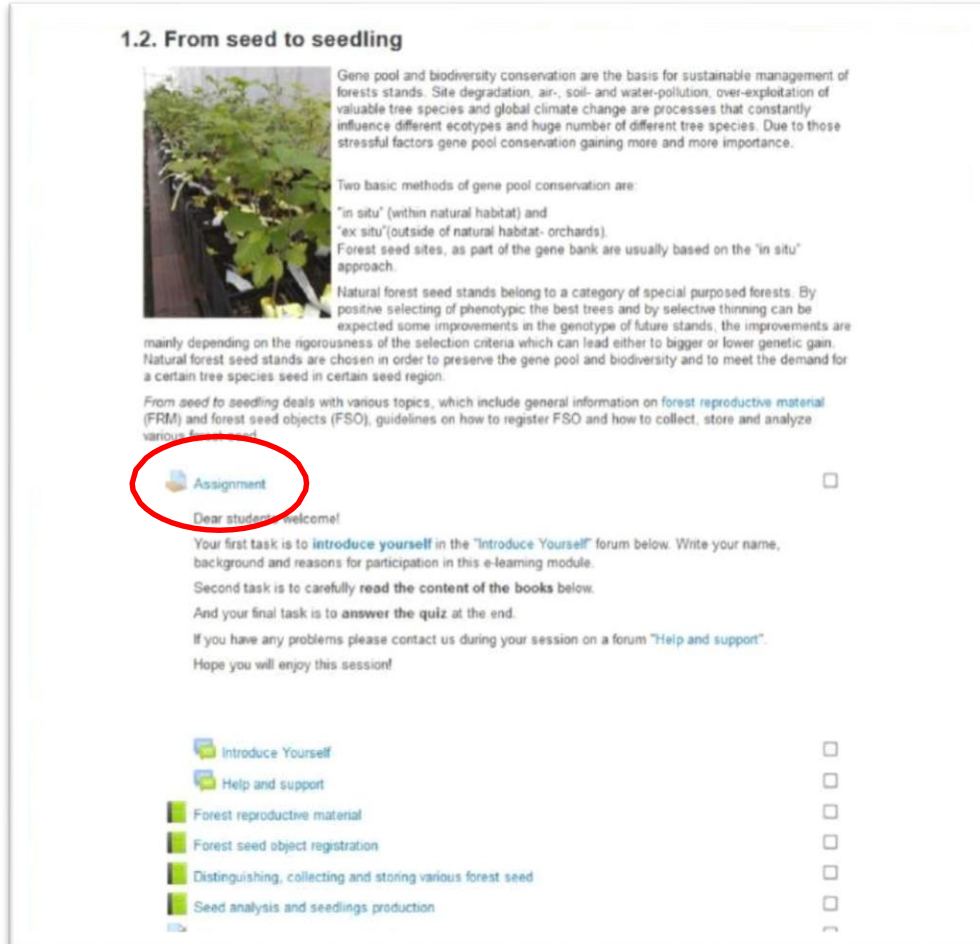


After choosing a presentation, click on the arrows to change slides. Do not forget to choose question marks in order to find additional comments.



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 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.

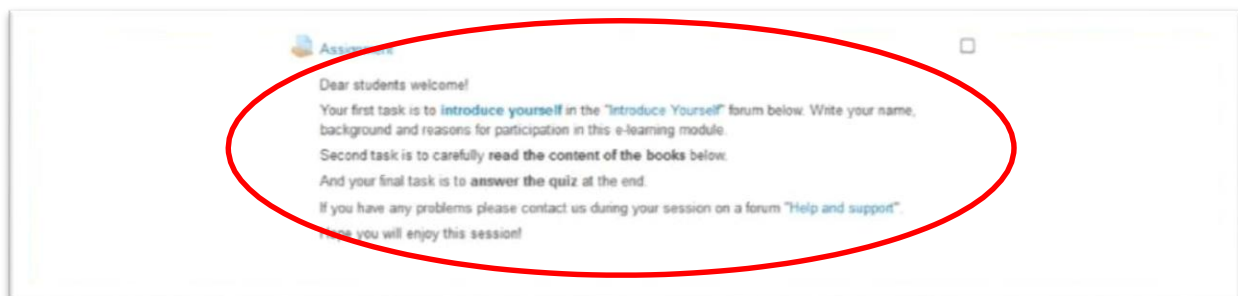
If you have any problems please contact us during your session on a forum "Help and support".

Hope you will enjoy this session!

- [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.


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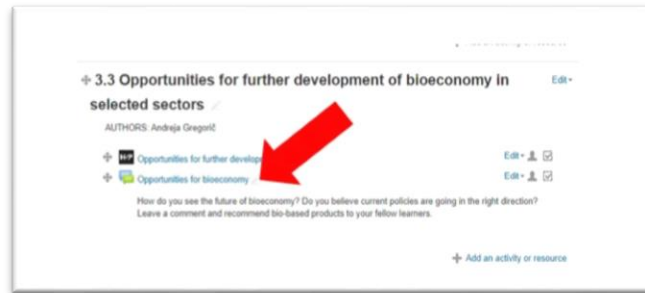
If you have any problems please contact us during your session on a forum "Help and support".

Hope you will enjoy this session!

Forum

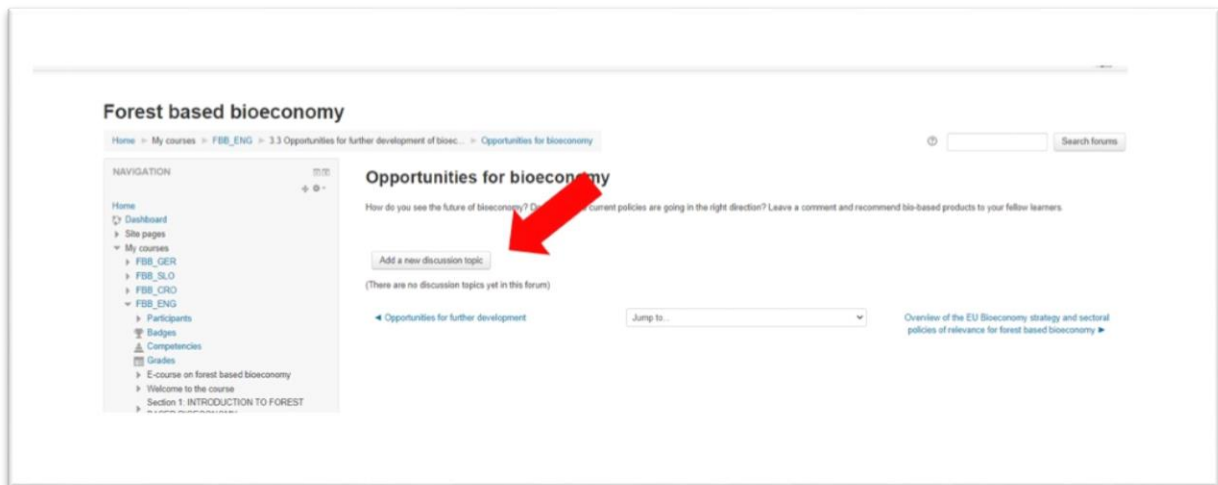
How to enter a forum?

Usually the first assignment is to introduce yourself in the forum . In this course you can find it under the third Section - 3.3. Opportunities for further development of bioeconomy in selected sectors.

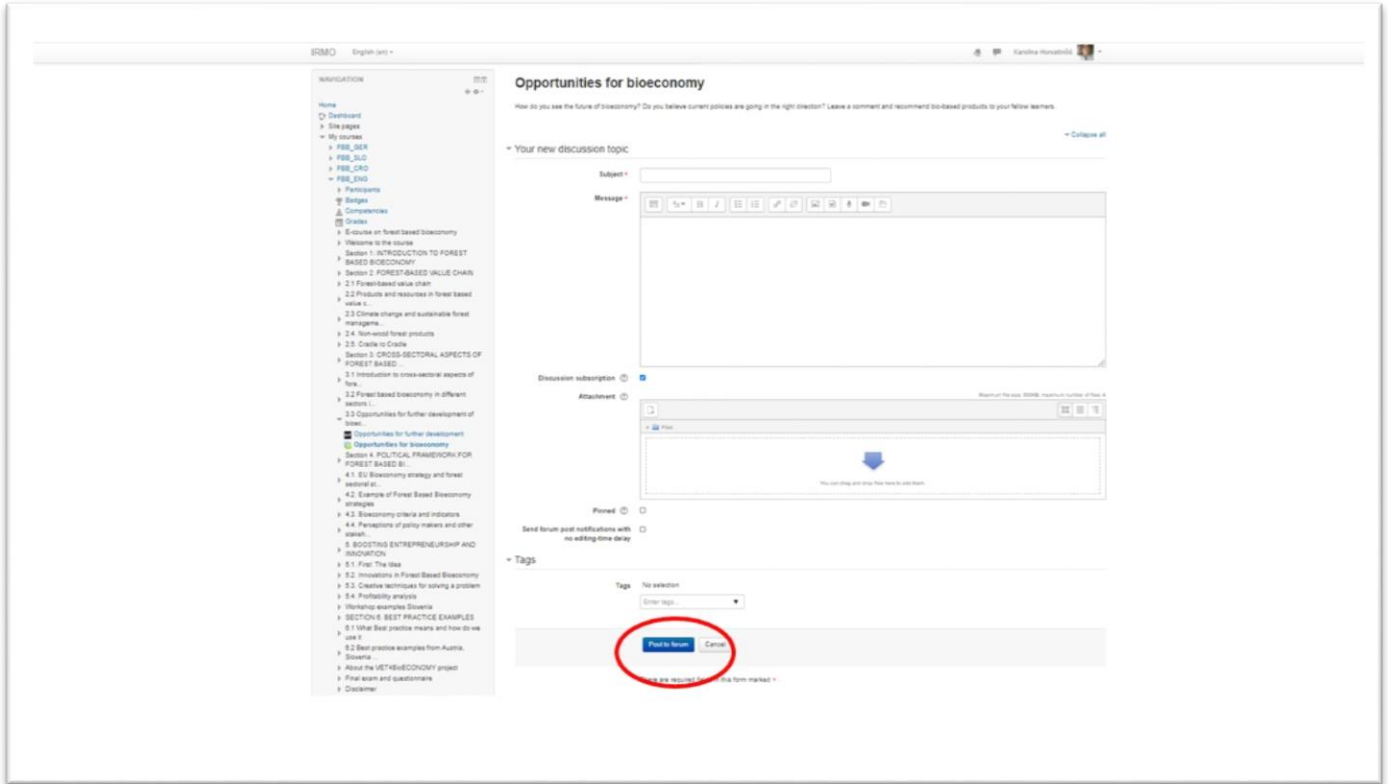


Click on the Forum.

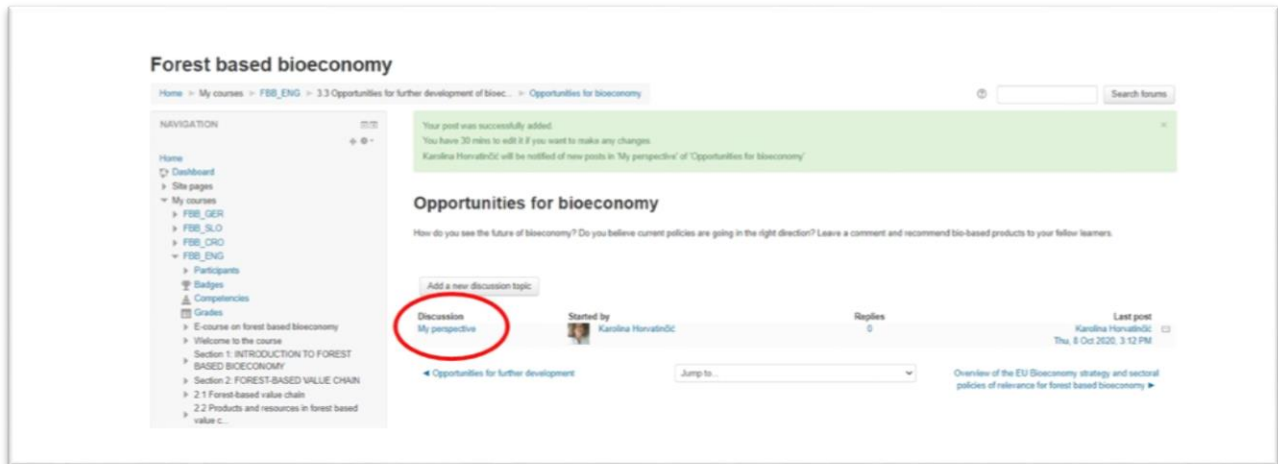
If you are the first one who entered, click on the Add a new discussion topic. Or if you want to add any other topic to discuss within this forum use this button.



Here you can write how do you see future of bioeconomy. 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.

The screenshot shows a Moodle forum interface. At the top, the page title is "Forest based bioeconomy". Below it, a breadcrumb trail reads: "Home > My courses > FB_E_ENG > 3.3 Opportunities for further development of bioeconomy > Opportunities for bioeconomy > My perspective". A search bar is located in the top right corner.

On the left side, there is a "NAVIGATION" menu with the following items: Home, Dashboard, Site pages, My courses (with sub-items FB_E_GER, FB_E_SLO, FB_E_CRO, FB_E_ENG), Participants, Badges, Competencies, Grades, E-course on forest based bioeconomy (with sub-items Welcome to the course, Section 1: INTRODUCTION TO FOREST BASED BIOECONOMY, Section 2: FOREST-BASED VALUE CHAIN), and Forest based value chain.

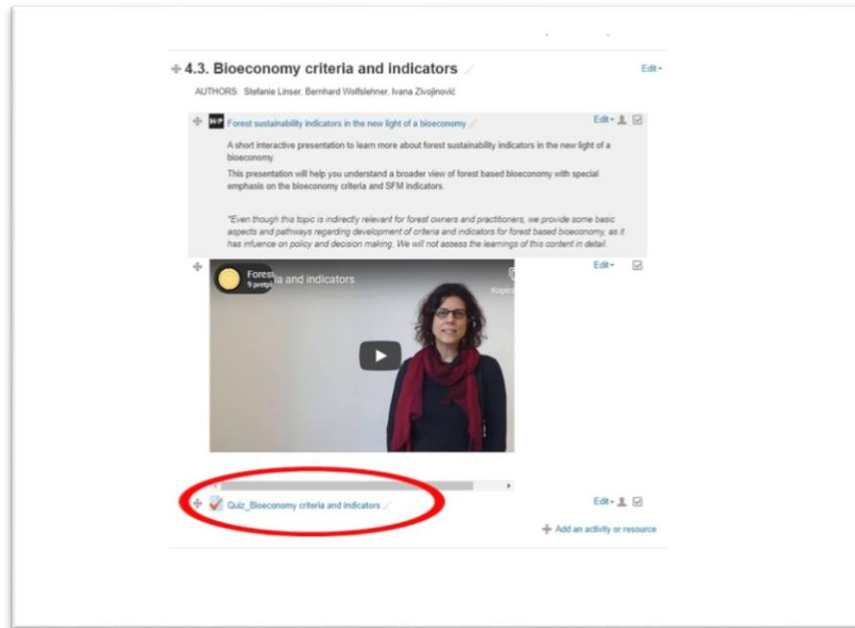
The main content area is titled "Opportunities for bioeconomy" and "My perspective". It includes a "Display replies in nested form" dropdown, "Move this discussion to..." dropdown, "Move" button, and "Pin" button. A "Subscribed" checkbox is also present.

A discussion post is shown, titled "My perspective" by "Karolina Horvathová" on "Thursday, 8 October 2020, 3:12 PM". The post content is "odd". To the right of the post, there are links for "Permalink" and "Delete Reply", which are circled in red.

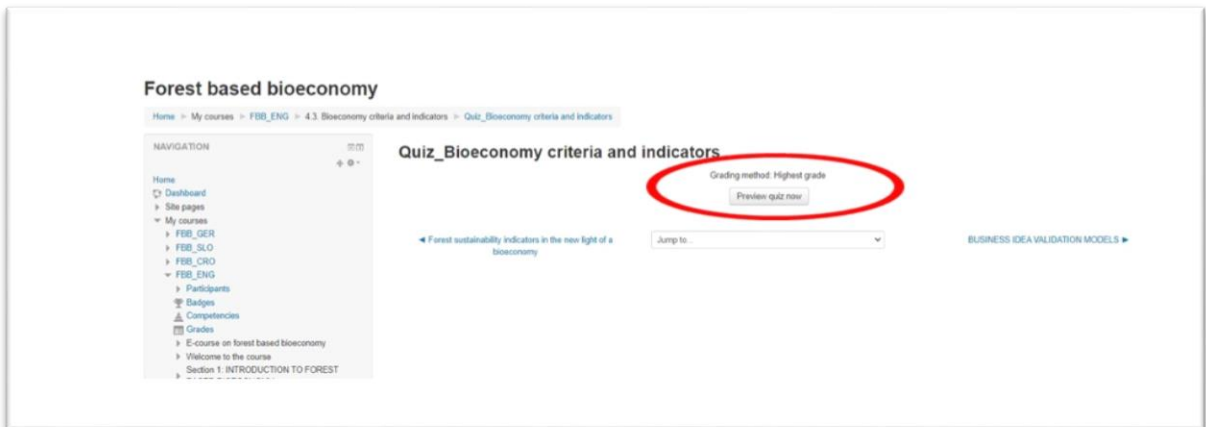
At the bottom of the forum post, there is a "Jump to:" dropdown menu and a link to "Overview of the EU Bioeconomy strategy and sectoral policies of relevance for forest based bioeconomy".

Reviewing - taking a quiz

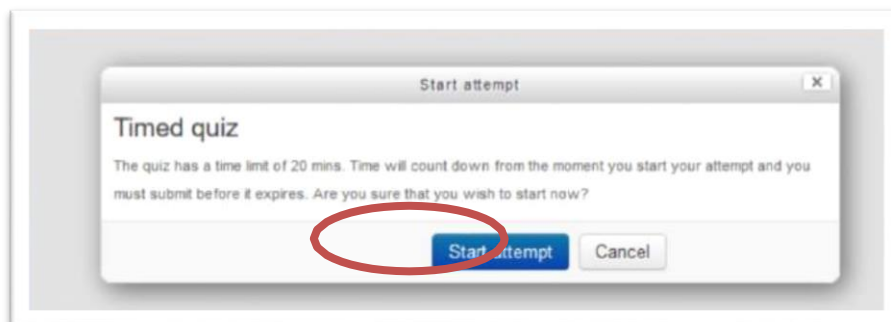
1. To take a quiz, select (click on) a quiz in the educational material.



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.



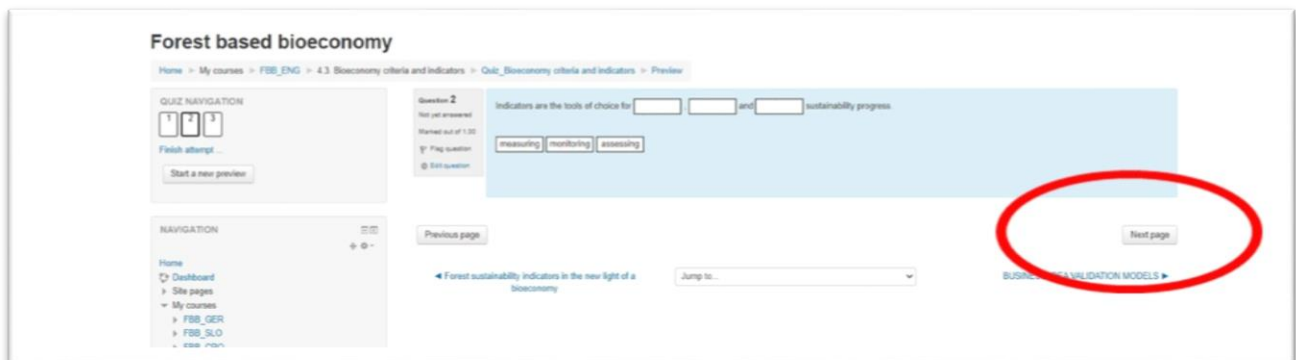
3. If the quiz has a time limit, a window will pop-up, notifying you about the time limit.



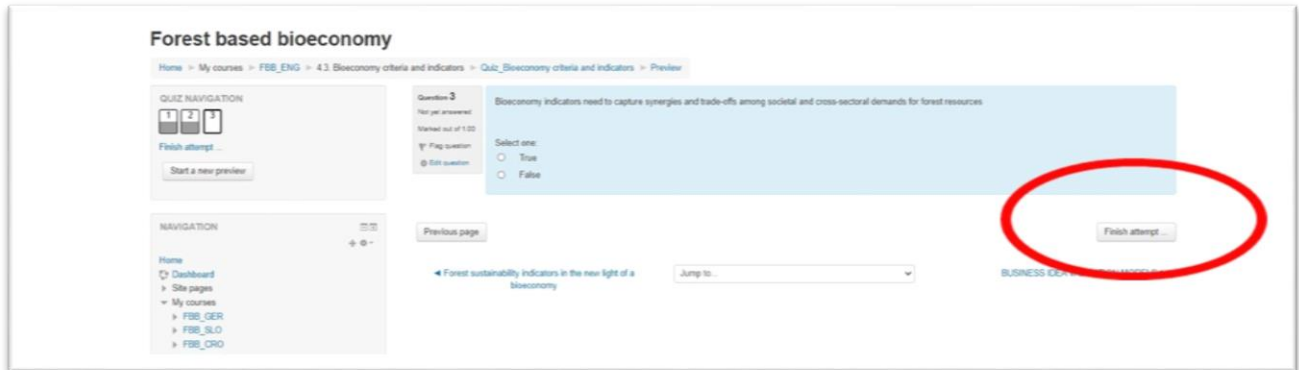
4. Click »**Start attempt**« to begin the quiz.
5. The quiz (questionnaire) will open. Answer the questions to complete the quiz. Use the »**Quiz navigation**« toolbar to keep track of your submissions and time.



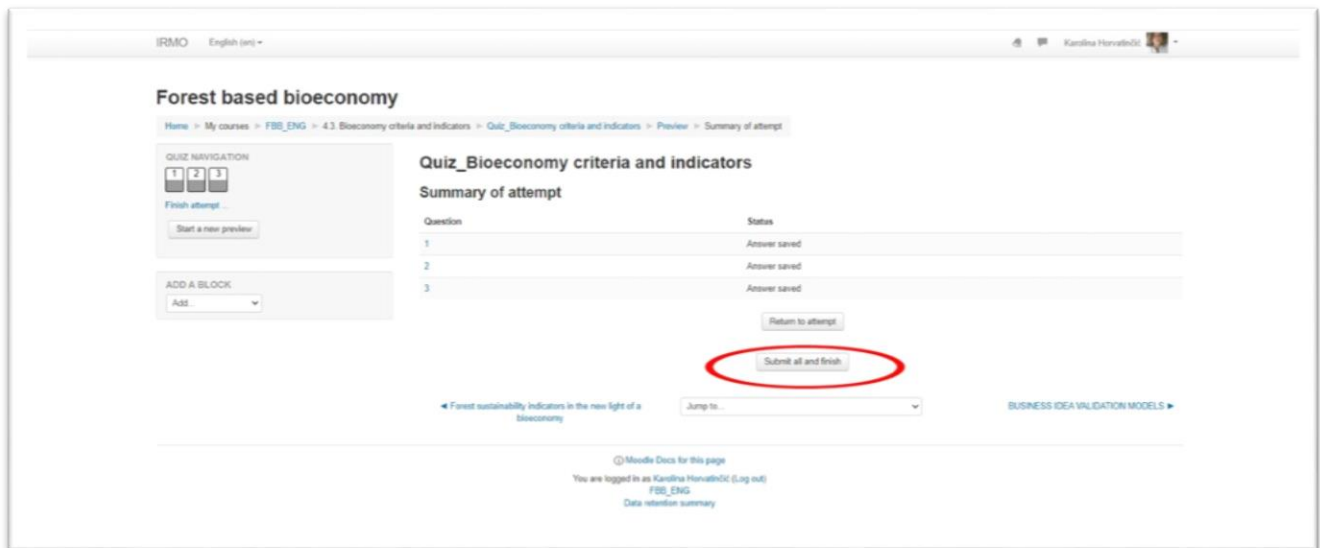
6. Click the **next page** button to continue solving the quiz on the next page.



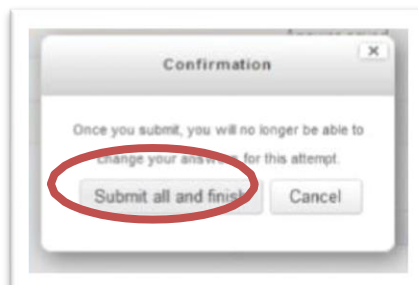
7. When you are done solving the quiz, click the »Finish attempt« button.



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.



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.