Ranking Activities AI

This documentation is divided into several pages to maintain a more organized structure and less depth.

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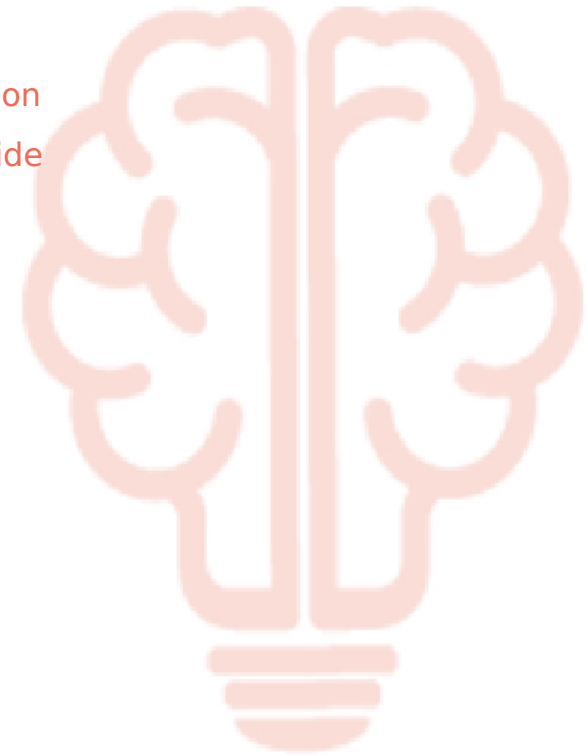


Overview

The **Ranking Activities AI** plugin empowers students to rate course activities and resources, transforming simple feedback into **meaningful, AI-powered insights** for teachers and administrators.

Using the **DataCurso AI Provider**, this plugin connects directly to powerful AI services that analyze student ratings and feedback to provide **actionable summaries and visual reports** that enhance teaching quality and course design.

Educators can instantly generate AI-based analyses of student engagement and satisfaction, while administrators gain valuable data about how activities perform across courses.

Key Features

- **Student Activity Ratings** – Allow students to rate each course activity or resource with a clean, user-friendly interface.
- **AI-Powered Analysis** – Automatically summarize and interpret ratings to uncover trends, strengths, and improvement areas.
- **Visual Reports** – Display summarized insights and AI-generated feedback directly within the course.
- **Seamless Integration** – Works in sync with the **DataCurso AI Provider**, using your Moodle AI token credits.
- **Instructor Insights** – Provide teachers with quick, data-driven overviews to improve content and engagement.

How It Works

The Ranking Activities AI plugin operates in a simple yet powerful workflow:

1. **Student Rating**: Students encounter a rating interface when accessing any activity or resource within a Moodle course. They can express their

feedback through Like/Dislike buttons or custom comments.

2. **Feedback Collection**: When students select Like or Dislike, they can choose from predefined responses. Alternatively, they can select "Other" to write a personalized comment.

3. **Data Aggregation**: All ratings and comments are collected and stored, creating a comprehensive dataset of student opinions.

4. **AI Analysis**: Teachers and administrators can generate AI-powered analyses that process the collected data to produce meaningful insights.

5. **Insight Generation**: The AI generates summaries highlighting strengths and weaknesses of specific activities, engagement levels, and perceived learning value.

Rating System

The plugin provides students with multiple ways to provide feedback:

Like/Dislike Buttons

When students access an activity or resource, they can quickly express their opinion using Like or Dislike buttons. After selecting an option, a set of predefined responses appears for them to choose from and submit.

Custom Comments

If students want to provide more detailed feedback, they can select the "Other" option, which reveals a text field where they can write their own comment.

Confirmation

After submitting their feedback, students receive a confirmation message indicating their feedback was successfully recorded.

Target Users

The Ranking Activities AI plugin is designed for:

- **Students**: To provide quick and meaningful feedback on course activities and resources
- **Teachers**: To gain insights into how their activities are perceived and identify areas for improvement
- **Course Designers**: To understand which activities contribute most to student engagement
- **Administrators**: To monitor overall course quality and generate cross-course reports

Benefits

1. **Enhanced Course Quality**: Educators receive actionable insights to improve their teaching materials and activity design
2. **Student Voice**: Provides students with a simple way to influence their learning experience
3. **Data-Driven Decisions**: AI analysis transforms raw ratings into meaningful, actionable feedback
4. **Comprehensive Analytics**: Both teachers and administrators can view ratings across courses
5. **Engagement Insights**: Understand which activities students find most valuable and engaging

AI Analysis Capabilities

The plugin leverages the DataCurso AI Provider to generate:

- **Overall Course Quality Summaries**: AI-generated assessments of how students perceive the course
- **Activity Strengths & Weaknesses**: Identifies which activities perform well and which need improvement

- **Engagement Insights**: Analyzes patterns in student participation and satisfaction
- **Learning Value Assessments**: Evaluates perceived educational value of different activities
- **Comment Analysis**: Processes open-ended feedback to extract key themes and sentiments

Administration & Configuration

Administrators have access to several configuration options:

- **General Settings**: Enable or disable the plugin's visibility in courses
- **Predefined Responses**: Create and manage response options that students can select
- **Global Reports**: View comprehensive ratings data across all courses

Integration with DataCurso AI Provider

This plugin requires the **DataCourse AI Provider** to function. The AI provider must be installed separately in Moodle and configured with a valid license key. Once configured, the plugin leverages the AI capabilities to generate narrative feedback and recommendations based on student ratings.

Download

The Ranking Activities AI plugin can be downloaded from the official Moodle Plugins directory:

Download Ranking Activities AI

Pre-requisites

To use the **Ranking Activities AI** plugin, ensure your environment meets the following requirements:

1. **Moodle 4.5** or higher.
2. **DataCurso AI Provider** plugin installed. You can download it for free from the Moodle Plugins Directory.
3. A valid **license key** configured in the DataCurso AI Provider settings.

> [!IMPORTANT] This plugin will not function unless the **DataCurso AI Provider** plugin is installed and properly licensed.

Installation

Installing via uploaded ZIP file

1. Log in to your Moodle site as an admin and go to `Site administration > Plugins > Install plugins`.
2. Upload the ZIP file containing the plugin code.
3. Review the plugin validation report and finish the installation.

Installing manually

You can also install this plugin manually by copying its contents into :

```
{your/moodle/dirroot}/local/datacurso_ratings
```

Then log in to your Moodle site as an admin and go to `Site administration > Notifications` to complete the installation.

Alternatively, from the command line:

```
php admin/cli/upgrade.php
```

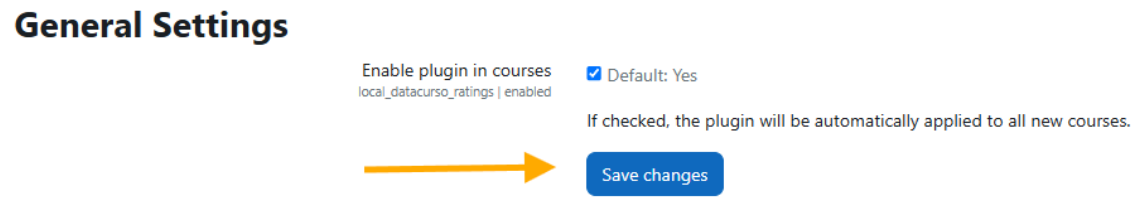
Configuration

Once installed, follow these steps to configure the plugin:

1. Log in as an administrator.
2. Go to any Moodle course and locate the **Ranking Activities AI** section.
3. Ensure the **DataCurso AI Provider** plugin is active and licensed.
4. Students can now start rating activities. Teachers and admins can generate AI-based analyses using the **“Generate AI Analysis”** button.

General Settings

Administrators can enable or disable the plugin's visibility in courses through the administration panel: `Site administration > Plugins > Local plugins > Ranking Activities AI > General settings`.



Student Guide

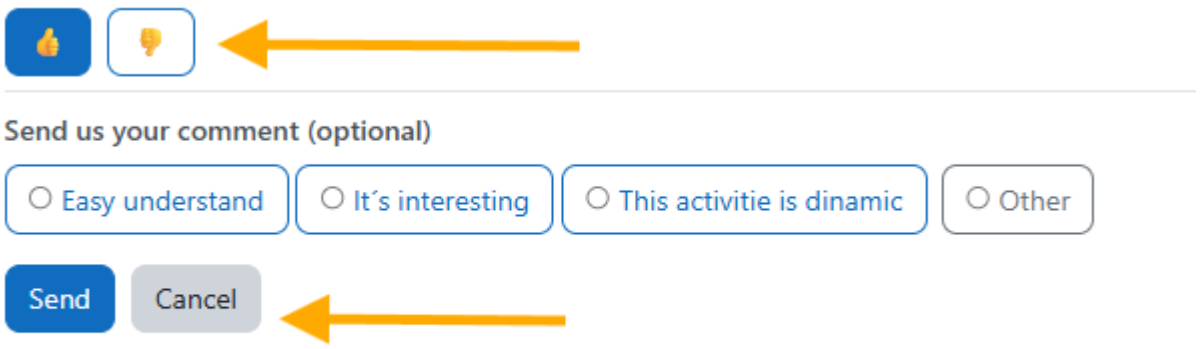
This section explains how students interact with the Ranking Activities AI plugin.

Rating Activities

When a student enters an activity or resource, they will see rating buttons to provide feedback.

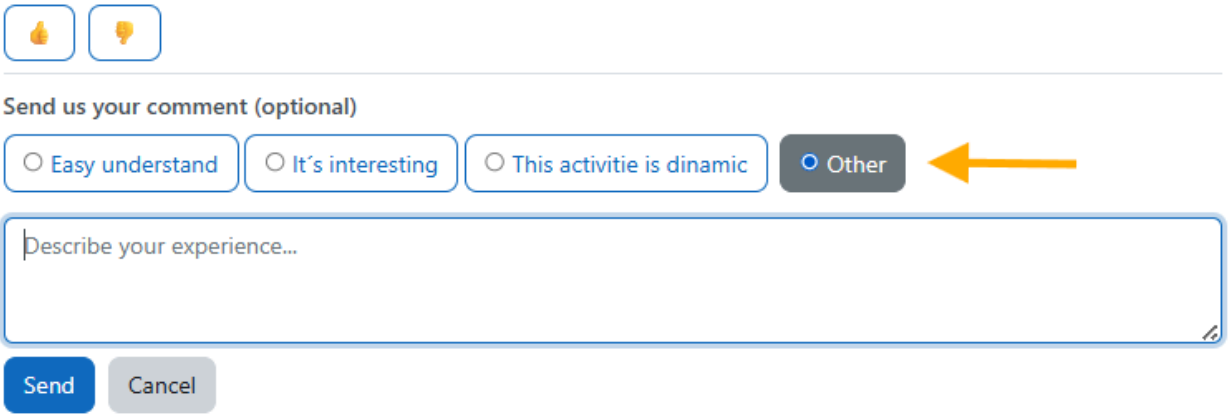
Like/Dislike Selection

When selecting **Like** or **Dislike**, a set of predefined responses will appear for the student to choose from and submit their feedback.



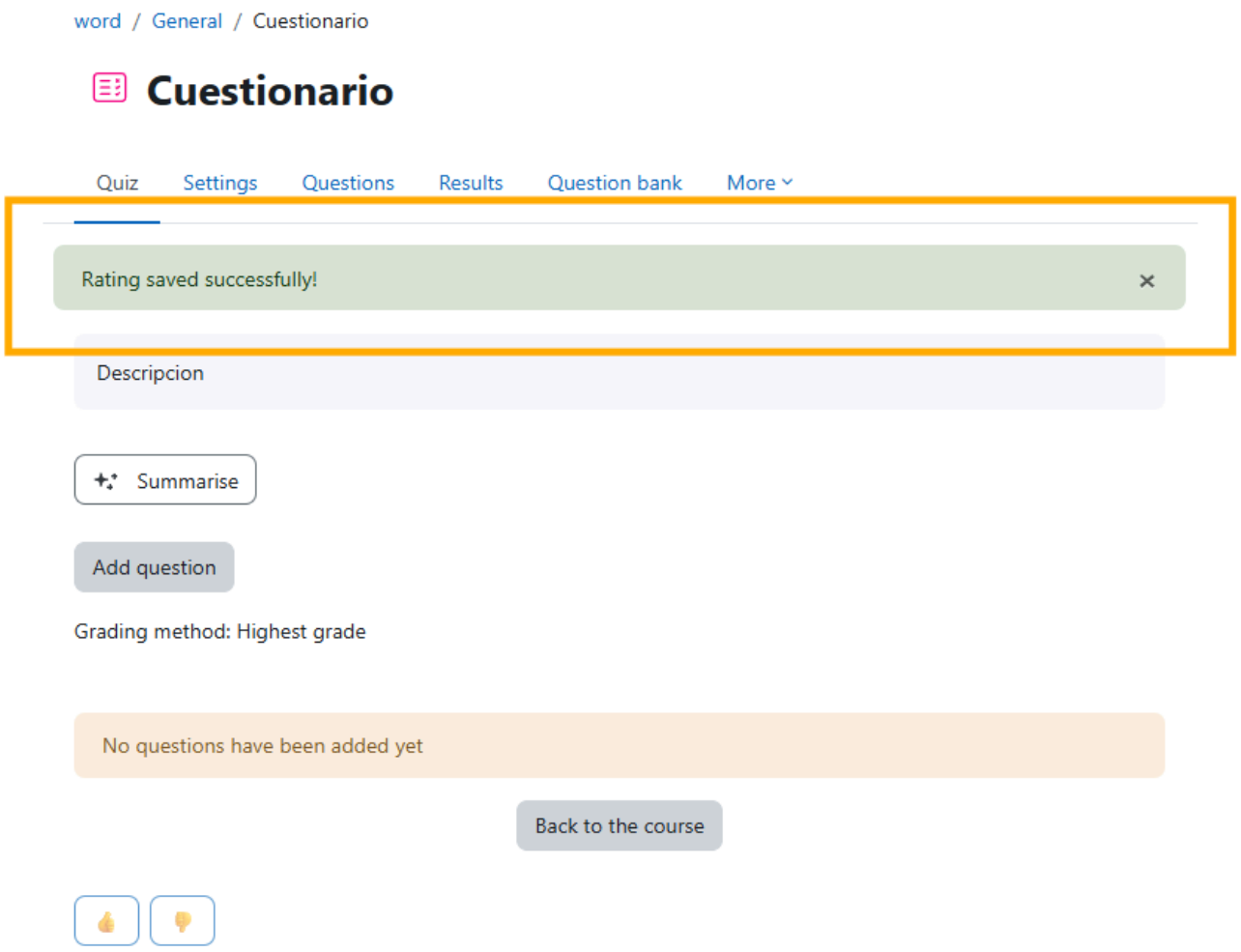
Custom Comments

If the student selects **Other**, a text field will appear where they can write their own comment.



Confirmation

After clicking **Submit**, the student will see a confirmation message indicating that their feedback was successfully sent.

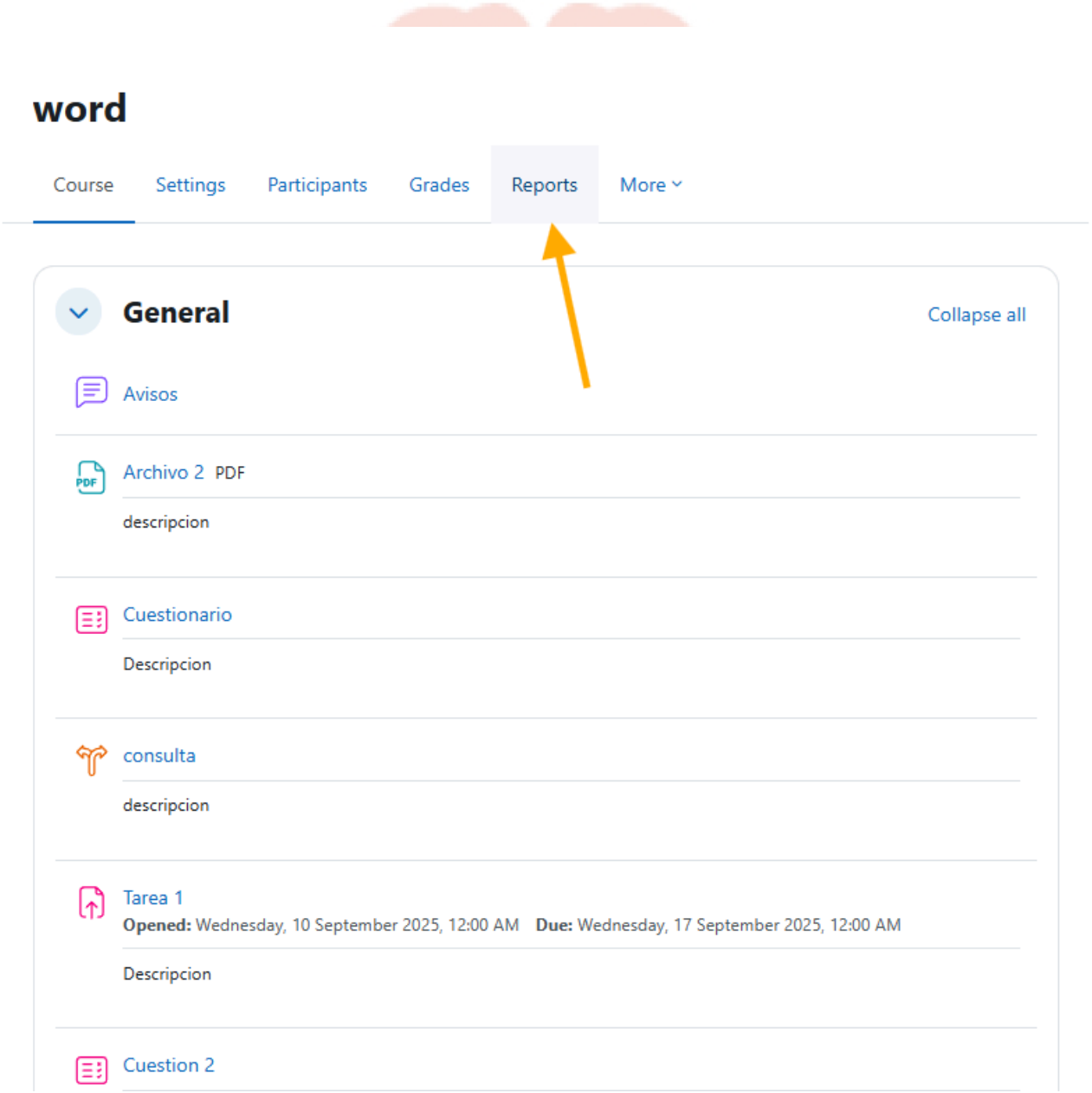


Teacher Guide

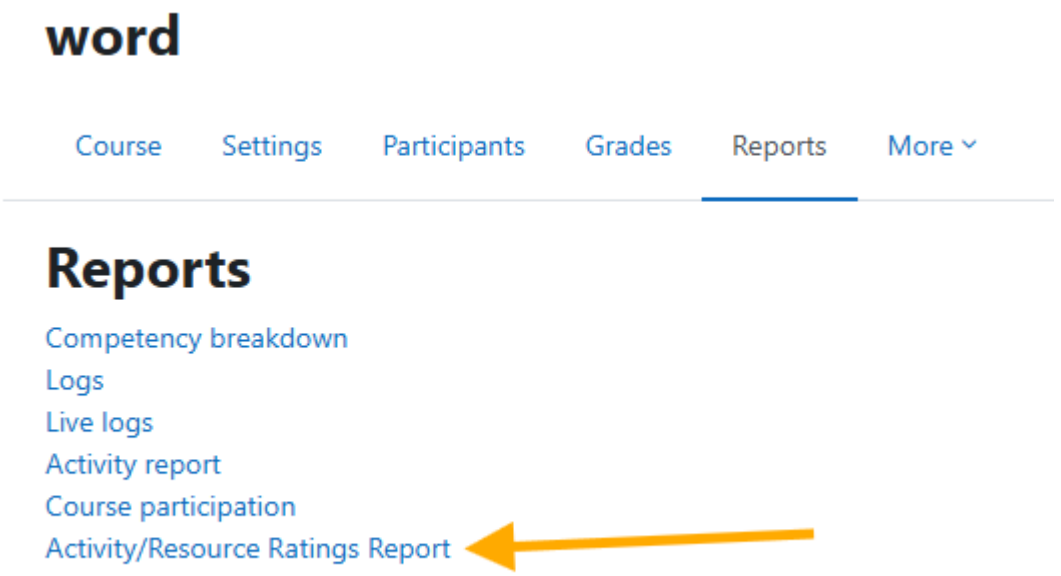
This section covers how teachers can use the Ranking Activities AI plugin to analyze student feedback.

Accessing the Course Report

On the main course page, teachers can access the report from the **Reports** section.

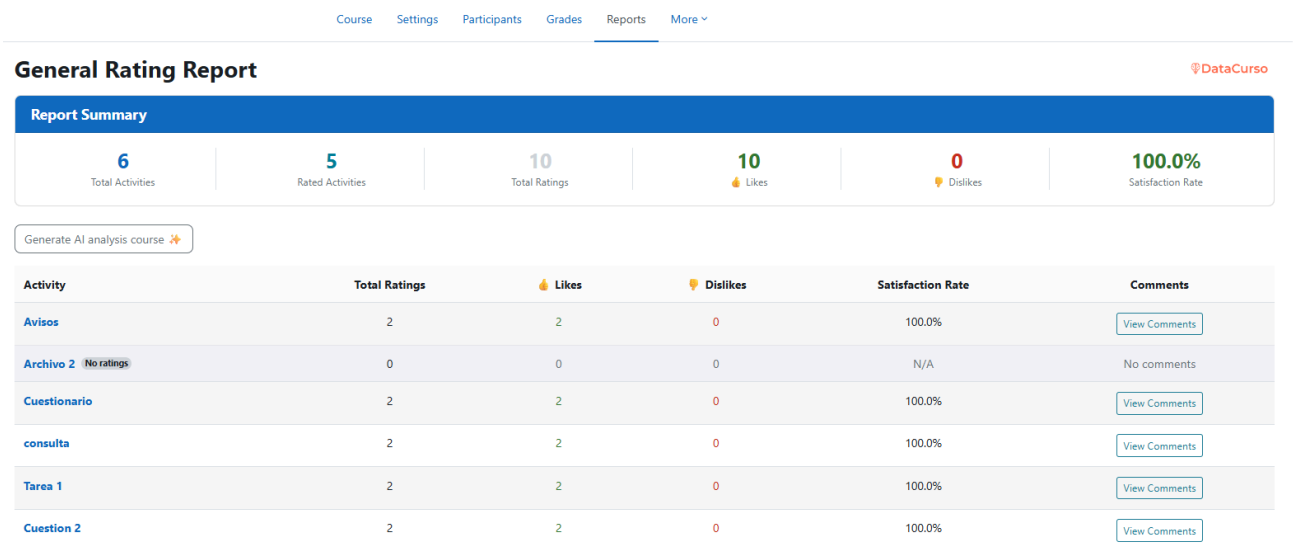


Navigate to **Activity/Resource Ratings Report**.



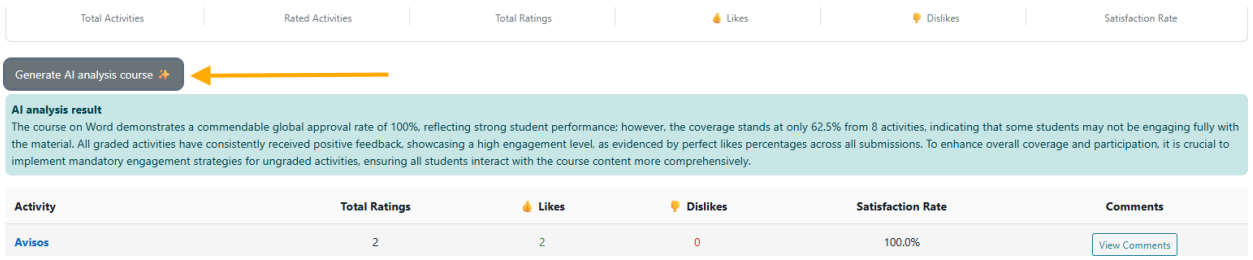
Viewing Course Ratings

Here, teachers will see the report summarizing ratings for all activities within their course.



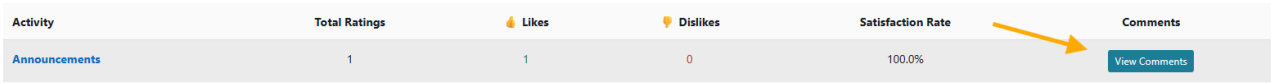
Generating AI Analysis

Similar to administrators, teachers have a button to generate a general AI analysis of activity ratings.

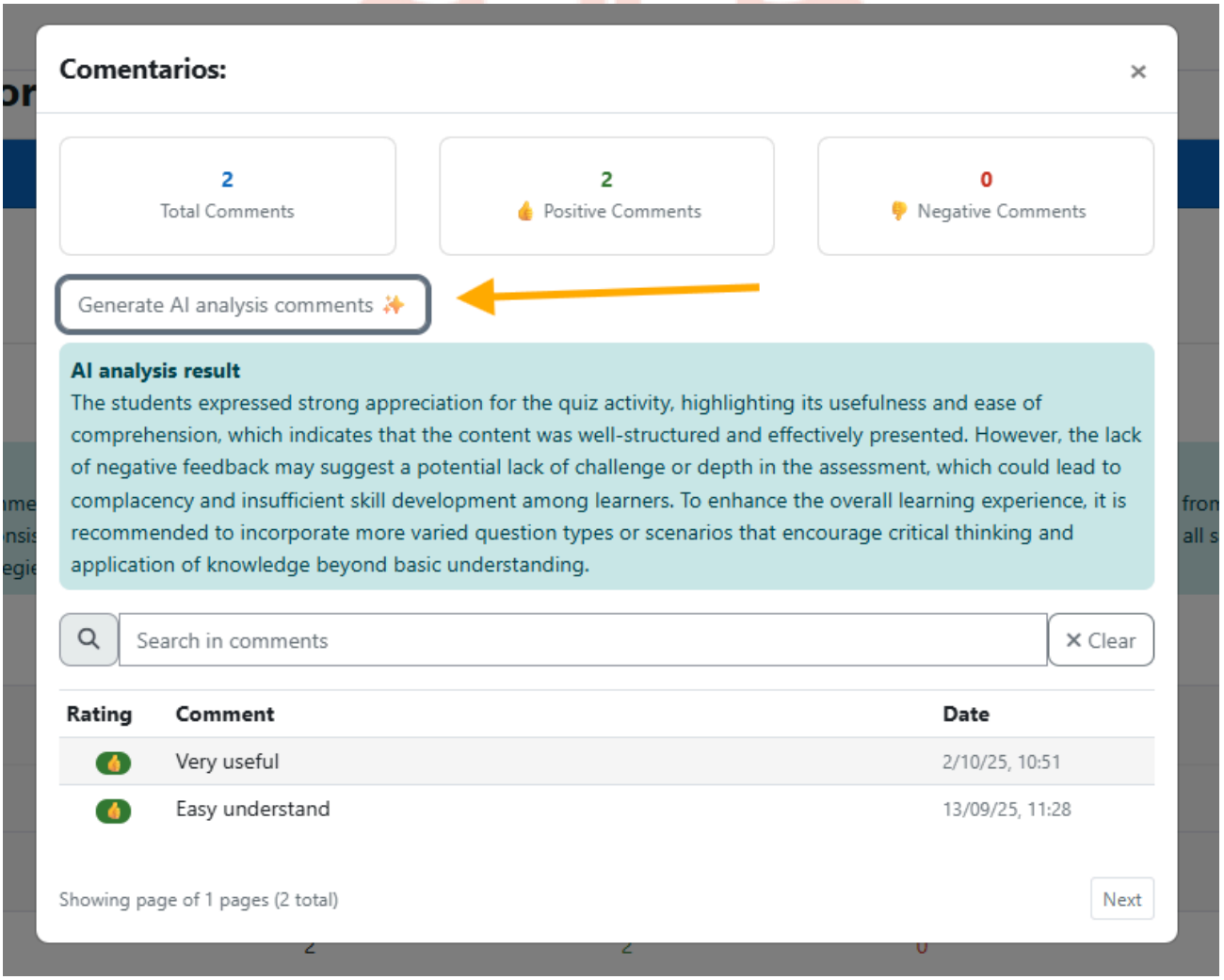


Analyzing Activity Comments

Click on the button to view the comments of a specific activity.



Additionally, teachers can generate AI analyses of activity comments to understand student feedback in detail.

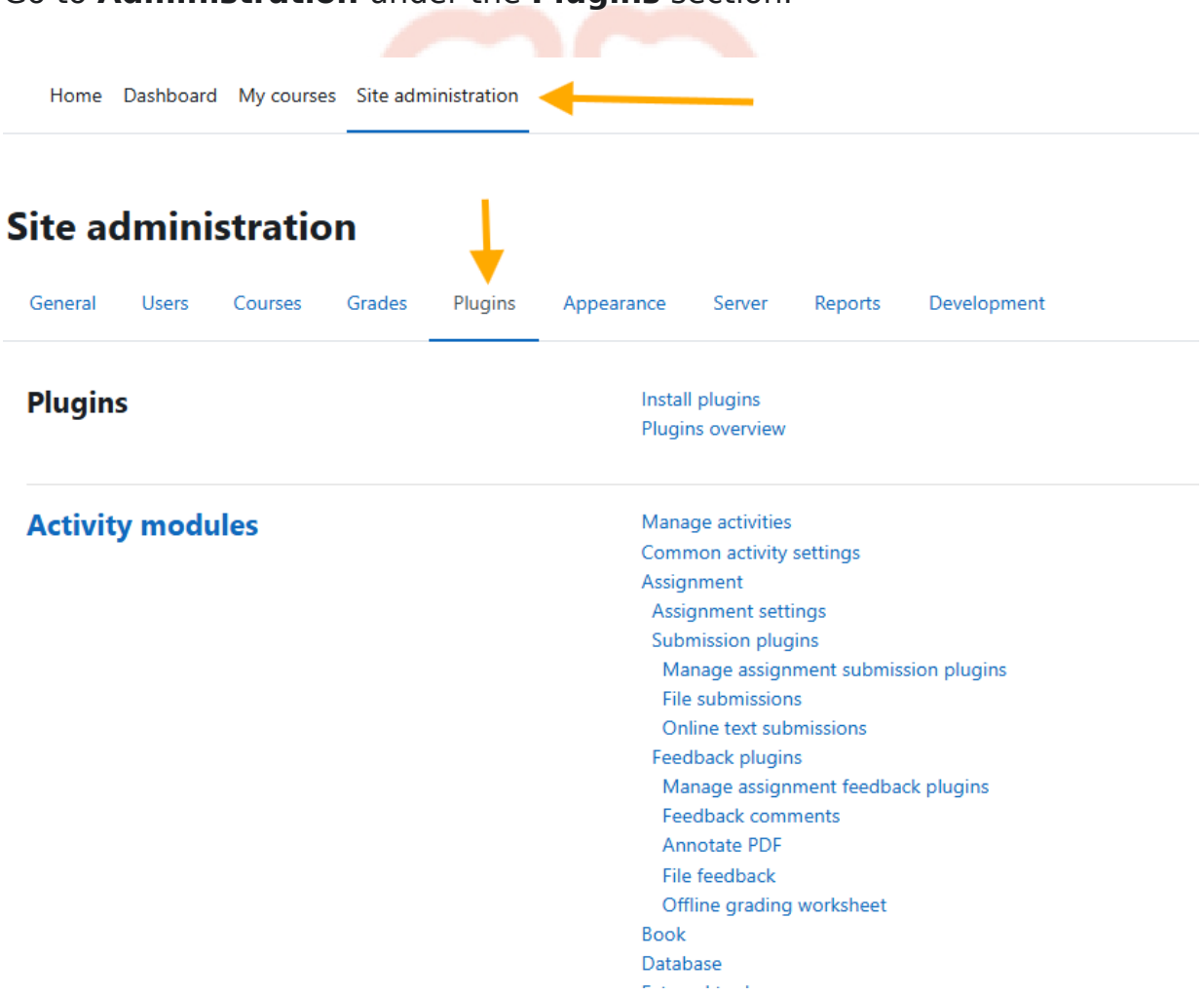


Administrator Guide

This section covers all administrative features of the Ranking Activities AI plugin.

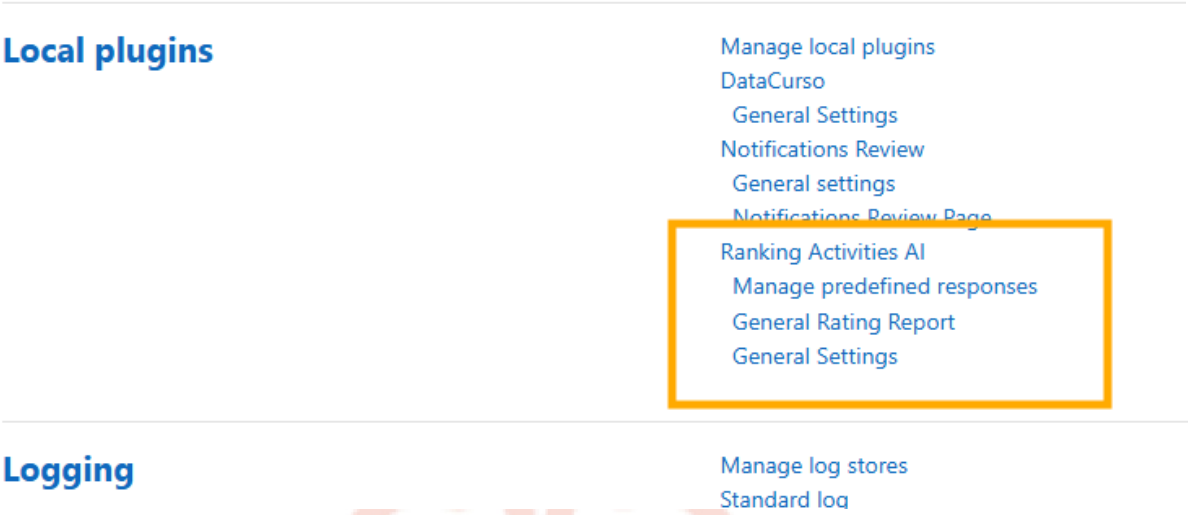
Accessing the Administration Panel

1. Go to **Administration** under the **Plugins** section.



2. Find **Local Plugins** and locate the **Ranking Activities AI** links. Here you will find three links related to this plugin:
    - Manage predefined responses
    - General ratings report

- General settings

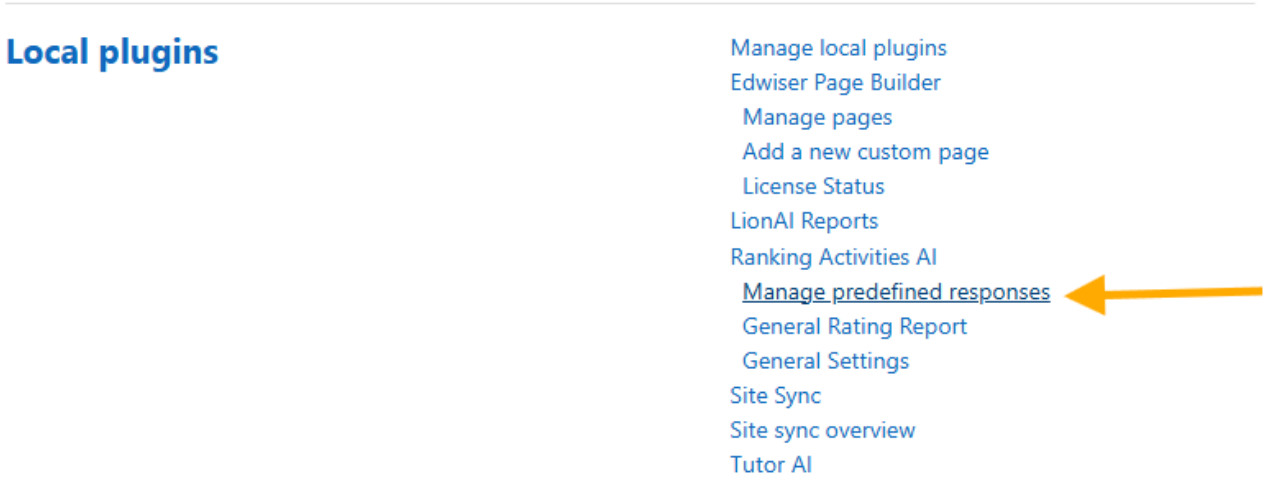


Available Sections

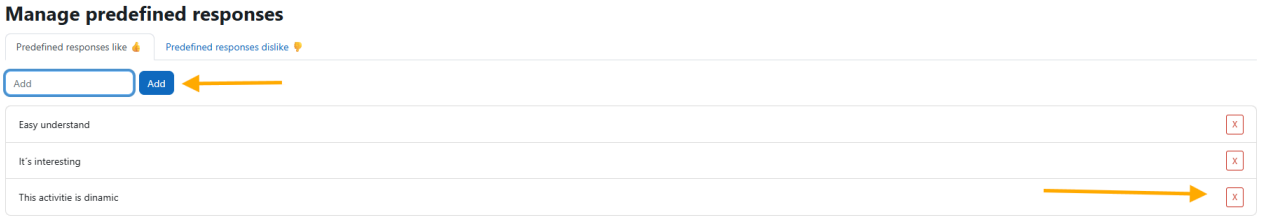
- **Manage Predefined Responses**: Create and manage response options for students
- **General Rating report**: View comprehensive ratings data and generate AI analyses
- **General settings**: Enable or disable the plugin’s visibility in courses

Manage Predefined Responses

Click on **Manage predefined responses** to access this section.

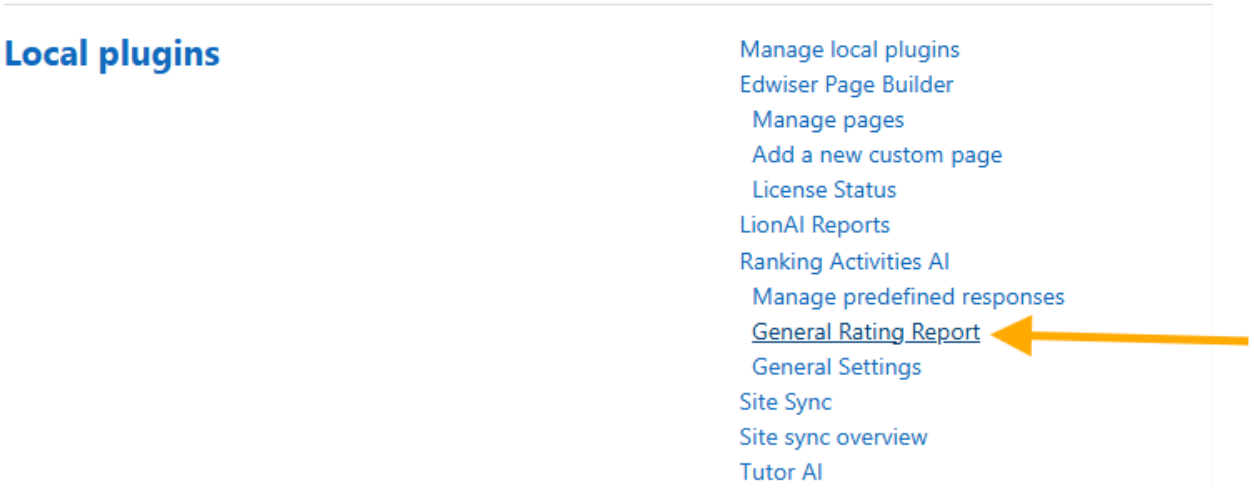


This page lets you add predefined responses that students can choose from when rating activities or resources.

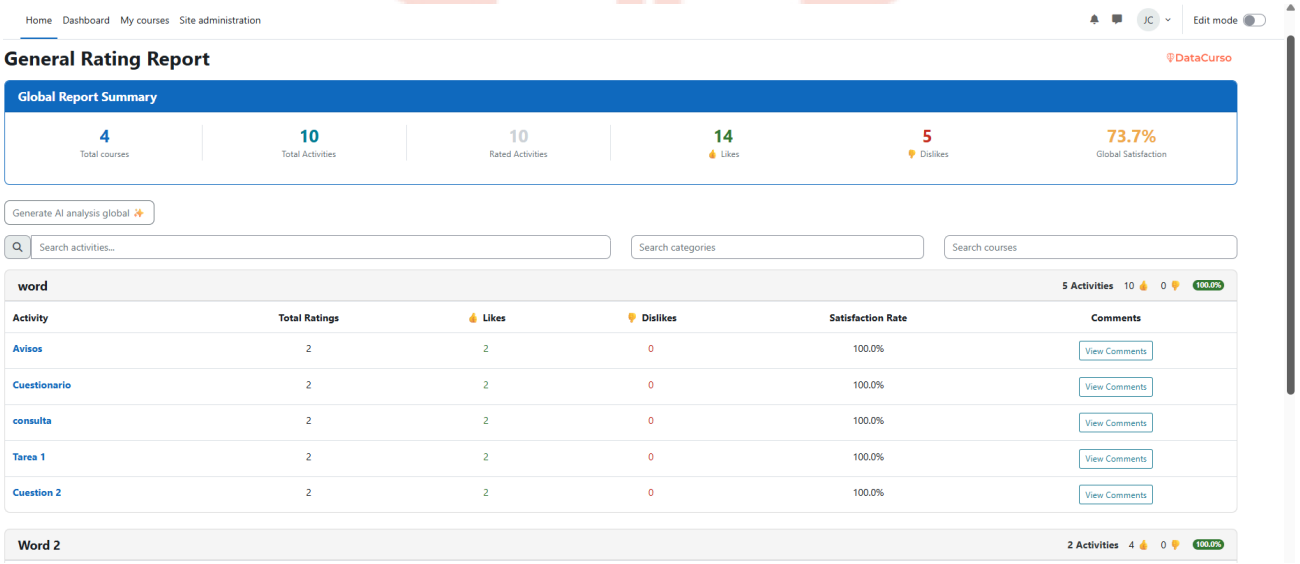


General Rating report

Click on **General ratings report** to access this section.

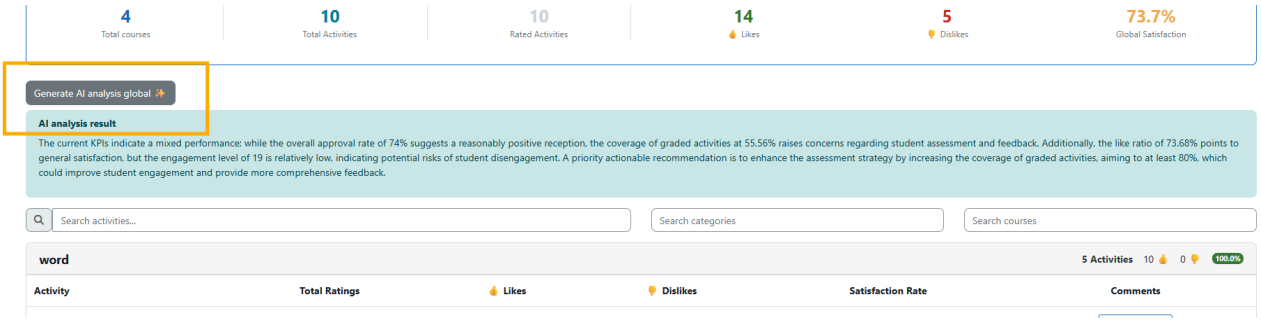


On this page, administrators can view a comprehensive report of all student ratings across every course activity.



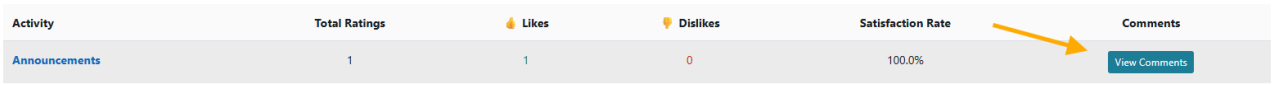
Generate Global AI Analysis

By clicking the **Generate Analysis** button, the AI will create an analysis based on the global data gathered from all courses.

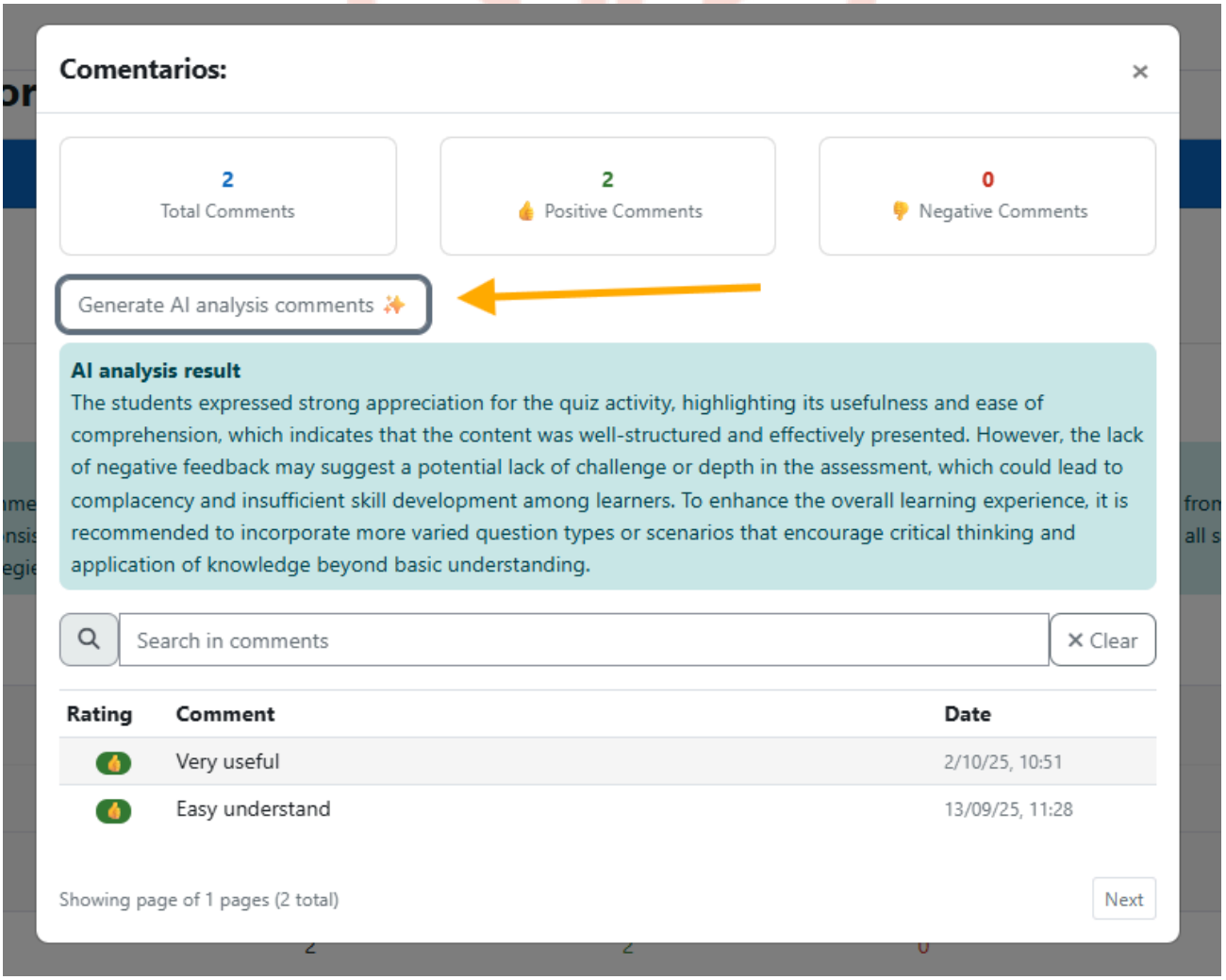


Activity-Specific AI Analysis

Click on the button to view the comments of a specific activity.



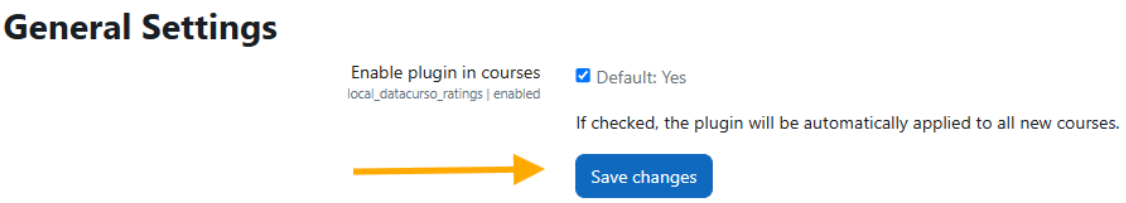
When viewing the comments of a specific activity, you can also generate an AI analysis of the comments.



General settings

This section allows you to enable or disable the plugin’s visibility in courses.

1. Go to **Administration** under the **Plugins** section.
2. Find **Local Plugins** and locate the **Ranking Activities AI** links.
3. Click on **General settings**.
4. Check or uncheck the **Enable** option to control the plugin visibility.



Datacurso Ratings plugin permissions

The following table summarises the main permissions used by the **Datacurso Ratings** plugin and their default role assignments.

Technical permission	Description
`local/datacurso_ratings:viewcoursereport`	View the Datacurso ratings report inside a course and call the supporting AJAX services (activity comments, AI summaries, etc.).
`local/datacurso_ratings:viewgeneralreport`	Intended to guard the global ratings dashboard and plugin settings, although the current UI still checks `moodle/site:config`
`local/datacurso_ratings:generateanalysisgeneral`	Marks users who are allowed to generate the global AI analysis when contacting the Datacurso AI provider.
`local/datacurso_ratings:generateanalysiscourse`	Marks users who are allowed to trigger th

Technical permission	Description
	course-level AI analysis endpoints.
`local/datacurso_ratings:generateanalysisactivity`	Marks users who are allowed to request A analyses focused on individual activities.

`local/datacurso_ratings:viewcourserreport`

Allows users to access the **Activity ratings report** inside each course (`local/datacurso_ratings/admin/report_ratings_course.php`) and the navigation shortcut injected via `local_datacurso_ratings_extend_navigation_course()` in `lib.php`.

With this permission, a user can:

- Open the in-course report UI to inspect likes, dislikes, and comments per activity.
- Use the AJAX services that power the report (`get_activity_comments`, `get_ai_analysis_comments`, `get_ai_analysis_course`, `get_ratings_report_course`, and related AMD modules), because each service checks this capability before returning data.
- Be included in the course picker returned by `get_courses_by_category`, which allows the global dashboard to list only courses where the user has this capability or `moodle/course:view`.

`local/datacurso_ratings:viewgeneralreport`

Designed to protect the **site-wide ratings dashboard and settings** (`admin/report.php` and `settings.php`). The string description ("Manage datacurso ratings settings") reflects that intent. At the moment those entry points still call `require_capability('moodle/site:config')`, so this capability is not enforced yet. You can assign it to custom roles in preparation for when the plugin switches the checks to this capability.

`local/datacurso_ratings:generateanalysisgeneral`

Identifies who is allowed to ask the Datacurso AI provider for a **global analysis** (`/rating/general`). The AI provider plugin (`ai/provider/datacurso/classes/local/ratelimit/local_datacurso_ratings.php`) uses this capability to build the list of eligible users when configuring rate limits, so only users with this permission can be whitelisted for the service.

With this permission a user can:

- Appear as an eligible account in the "General analysts" autocomplete when administrators restrict who can call the `/rating/general` endpoint.
- Request global AI summaries once the Datacurso AI service is configured.

`local/datacurso_ratings:generateanalysiscourse`

Marks the users that can request **course-level AI analyses** through the Datacurso AI services (`/rating/course`). The rate-limit settings of the Datacurso AI provider read this capability to populate the "Course analysts" autocomplete list, ensuring that only privileged roles can be allowed through when throttling is active.

With this permission, a user can:

- Be whitelisted in the AI provider settings to ask for course summaries.
- Generate the "AI analysis" visible in the course report once the permissions are granted.

`local/datacurso_ratings:generateanalysisactivity`

Complements the previous permission by signalling which users can send **activity-level AI analysis requests** (`/rating/query`). It shares the same rate-limit configuration entry as the course permission, so both are required to appear in the allowed users autocomplete for that endpoint.

With this permission, a user can:

- Be selected as an allowed analyst for the `/rating/query` endpoint in the AI provider configuration.
- Trigger the activity comment analysis widget that appears next to the ratings report once the AI integration is enabled.