

ENGAGEMENT STRATEGIES In MOODLE

Best practices for enhancing engagement

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OVERVIEW

What is Moodle?

Moodle is a leading Learning Management System (LMS) used globally to support online and blended learning environments.

- Open-Source Platform
- Modular Design
- Course Management Tools
- Personalization and Accessibility





How do you define or envision student engagement in learning?







IMPORTANCE OF ENGAGEMENT

Why Engagement Matters

Engagement is key to student success. In online environments, it determines course completion, satisfaction, and learning outcomes.

Increases Learning Retention

Boosts Student Motivation

Reduces Dropout Rates

Enhances Student's Performance

Supports Collaborative Learning

Facilitates Timely Feedback

Improves Course Quality

Promotes Lifelong Learning
Attitudes





CHALLENGE IN ONLINE ENGAGEMENT

Different Challenge Types

Lack of physical presence, distractions, and passive learning are common challenges in online education.



Passive Participation



Motivation and Self-Discipline Issues



Technological Barriers



Limited Peer Interaction



What challenges do you face when trying to engage students on Moodle?







TYPES OF ENGAGENET

Core foundation

In educational settings, **student engagement** is commonly categorized into **four main types**. Each type reflects different aspects of how students connect with learning.

- Behavioral
- Cognitive
- Emotional (or Affective)
- Social



HOW MOODLE SUPPORTS ENGAGEMENT

Effective Support System

Moodle offers diverse tools—forums, quizzes, interactive content, and analytics—that support various engagement types.

- Motivation Tools
- Collaborative Activities
- Interactive contents
- **Communication Tools**







01

Track logins

Monitor how often users access the platform.

02

Activity Completion

Check if students finish assigned tasks.

03

Forum participation

Measure number and quality of forum posts.

04

Time spent on task

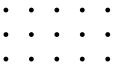
Track duration of activity engagement.

ENGAGEMENT METRICS IN MOODLE

Tailored Moodle Design

Track logins, activity completion, forum participation, and time spent on tasks.





KEY MOODLE FEATURES

Lessons Assignments

Quizzes Forums

Н5Р

Analytics

Messaging



OBJECTIVES

To explore.....

.... strategies for enhancing learner engagement using Moodle features and best practices.





USING FORUMS FOR ENGAGEMENT

Tailored Forums Design

Encourage peer-to-peer discussion, question posing, and reflection through well-structured forum activities.







Track logins

Monitor how often users access the platform.



01

Activity Completion

Check if students finish assigned tasks.



Forum participation

Measure number and quality of forum posts.



Time spent on task

Track duration of activity engagement.

USING FORUMS FOR ENGAGEMENT



USING FORUMS FOR ENGAGEMENT





> My courses > MPPP1203 > TECHNOLOGY IN TEACHING AND LEARNING > Forum: Educational Technology vs Instructional Tec...

Advanced grading

Subscriptions

Reports

More ▼

Forum: Educational Technology vs Instructional Technology

Settings

Answer the following questions:

- How do Educational Technology and Instructional Technology differ in terms of purpose and application?
- Provide real-world examples of how each is used in modern education.

Forum

Search forums Q

Add discussion topic



USING FORUMS FOR ENGAGEMENT



Emerging Trends in Educational Technology: What's Next?

Due: Tuesday, 5 August 2025, 11:59 PM

Purpose:

To explore students' understanding of current and future trends in educational technology, and to encourage peer discussion on how these trends may impact teaching and learning practices.

Learning Outcomes:

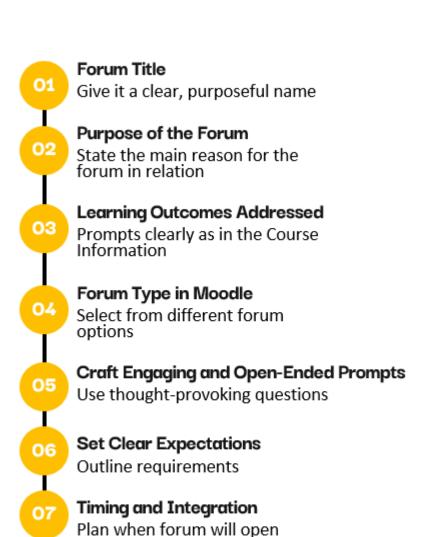
- LO1: Describe key trends and innovations in educational technology.
- LO3: Critically evaluate the impact of technology on teaching and learning.

Instruction:

Choose one emerging technology (e.g., AI, VR/AR, gamification, mobile learning) and discuss how it could transform teaching or learning in the next 5 years. Support your view with examples or research. What challenges might educators face in implementing it?

Participation Guidelines:

- Post 1 original response (150-200 words) by this weekend (3rd Aug 2025, Sunday).
- Reply to at least 2 classmates (100–150 words) by next week (5th Aug 2025, Tuesday).
- Use respectful, academic language.
- Cite sources if referencing research or case studies.



Encourage and Facilitate Interaction

Guide the discussion



USING FORUMS FOR ENGAGEMENT





Forum type	2	Q and A forum			+	;			
Availability									
Due date	?	Enable	5 💠	August	\$	2025 💠	23 💠	59 \$	曲
Cut-off date	?	✓ Enable	5 💠	August	\$	2025 💠	23 💠	59 \$	曲

Welcome to all students!

Announcements

Y TECHNOLOGY IN TEACHING A...

Notes_

TPACK video

Supplementary reading_

Forum: Educational Technology ...

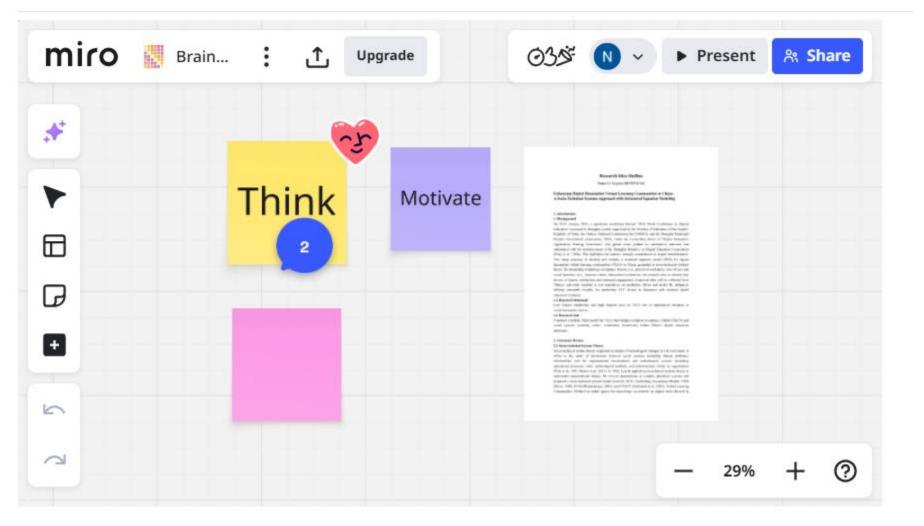
Emerging Trends in Educational ...

Brainstorm

Padlet

→ INTRODUCTION TO INSTRUCT...





Announcements

→ TECHNOLOGY IN TEACHING A...

Notes

TPACK video

Supplementary reading_

Forum: Educational Technology ...

Emerging Trends in Educational ...

Brainstorm

Padlet

✓ INTRODUCTION TO INSTRUCT...

Notes_

Supplementary reading_

Pre recorded video lecture

Forum: Who is instructional desi...



23241 ODL

1

23242 Mainstream

23242 ODL

24252 ODL

+

NUR KAMALIA BINTI KAMARUDI :

My Dream Play House



I like an outdoor, spacious and green environment where I can enjoy nature at its best.

I want to have a morning coffee while watching sun rises with pleasantly sweet, fresh morning grass earthy-smell scent.

Ω3

WAN NOORASHIKIN BINTI WA...
2 years ago

This is so nice Kamalia!

NUR KAMALIA BINTI KAMARUD...
2 years ago
thank you for liking it!

ZATIL NABILAH BT SHAMSUDI... 2 years ago

+ Add comment

cantik!

3300

Anonymous a year ago

Yes Dr. I have difficulty in drawing and painting the house at first because the shapes with same color will merge together or the shapes under another shape will be cut out when I move them around. But it was fine after I changed to object drawing mode.

+ Add comment

Anonymous a year ago

My Dream House



Just a simple sweet house...

3180

 Ω^2

sykin mz

a year ago
Which part of the house is the most
difficult to make?

Anonymous

a year ago

The roof of pentagon shape and the base grey color

→ ∆dd comment

Anonymous
a year ago

My Dream House



ILLY NADHIRAH BARUDIN

My first attempt in adobe animate.. still trying to understand layer by layer function.. but I find it interesting to explore! I wish to explore how to smoothly blend colours..

3780

sykin mz

a year ago

Do you find it difficult to color the chimney?

 Ω^2

Anonymous

a year ago
I intentionally left it white Prof =)

+ Add comment

Anonymous
a year ago

Dream House.

ABBERLITA JISON MPP244012 3 months ago



Hi all. This is my dream house that I envisioned to have in the near future. I have always wanted a serene environment around my neighbourhood, away from the bustling city and stressful atmosphere. But at the same time, I wanted a modern house that could support my everyday life with ease. So, a mix of modern house and simple lifestyle is the thing that I envisioned for my dream house.

P.s. I mainly used masking for my house design in Adobe Animate to make it look more realistic and appealing to the eyes.;)

3180

 \bigcirc 0

+ Add comment



QUIZZES AND IMMEDIATE FEEDBACK

Tailored Quiz Design

Use quizzes with instant feedback to reinforce understanding.



QUIZ

MPPP1223-53 CLASS ACTIVITIES, ASSIGNMENTS, QUIZ

Quiz Animate (Date: 14-16 June 2025) - 2.5% Preview

×

Quiz Animate (Date: 14-16 June 2025) - 2.5%

+ Add a block

Back

You can preview this quiz, but if this were a real attempt, you would be blocked because:

This quiz is currently not available.

Question 1

Not yet answered

☐ Flag question



v1 (latest)

Animate CC playable file is called shockwave (.swf).

O True

O False

-

Quiz navigation

8 9 10 11 12 13 14

15

Finish attempt ...

Start a new preview

Next page



GAMIFIED ASSESSMENTS AND BADGES

Gamification is the use of game-like elements in non-game contexts—like education—to increase motivation, engagement, and participation



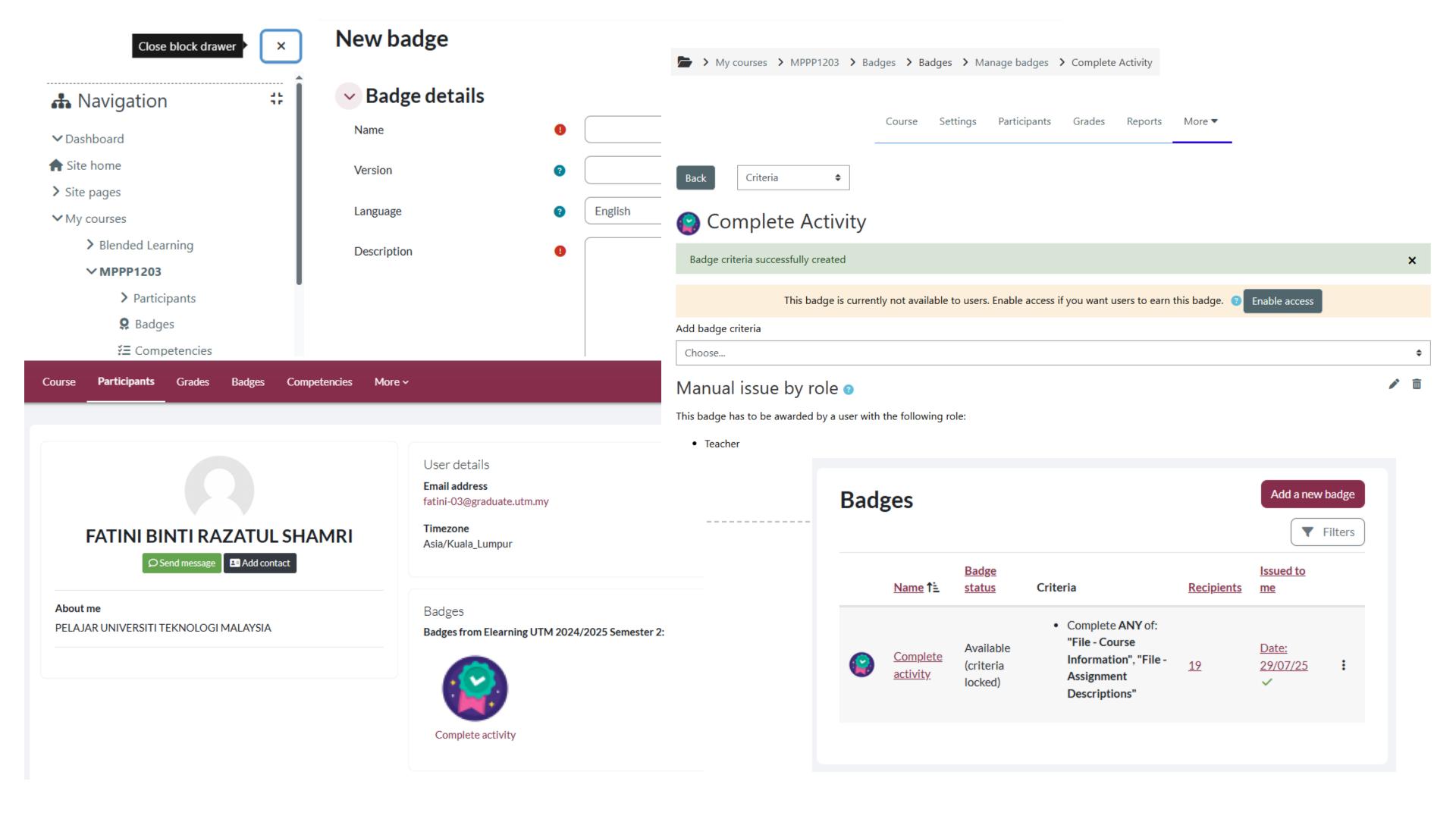














USING HTML5 PACKAGE (H5P) INTERACTIVE VIDEO

Cognitive engagement through multimedia + active recall





USING POLLS AND SURVEYS

Gauge opinions, gather feedback, and spark discussion.

- to assess or understand what people think or feel about a topic.
- collecting responses, suggestions, or reflections from students about a lesson, activity, or teaching method.
- encourage meaningful conversation or debate among students.





HANDS-ON TASK (Assignment/URL)

Cognitive + behavioral engagement through application





ONLINE LEARNING ACTIVITY PLAN (MOODLE)

Objective: Students will understand basic image concepts

(formats, resolution, uses) and apply simple

image-editing tasks.

Total Duration: 40 minutes

Platform: Moodle (with built-in and plugin tools)



Time	Activity	Description	Engagement Strategy
0–5 min	Welcome Message + Icebreaker (via Forum or Chat)	Prompt: "Upload a favorite image and share why you like it."	Builds emotional engagement and peer interaction
5–10 min	Interactive Video (H5P)	Watch a short video on image types (JPG, PNG, GIF) with embedded questions.	Cognitive engagement through multimedia + active recall
10–15 min	Quick Quiz (Moodle Quiz)	5 MCQs on image types, uses, and quality. Immediate feedback enabled.	Behavioral engagement via interactivity; checks understanding
15–25 min	Hands-On Task (Assignment/URL)	Link to a free online image editor (e.g., Photopea). Task: Resize or crop an image and upload it.	Cognitive + behavioral engagement through application
25–30 min	Group Discussion (Forum)	Prompt: "Why do image quality and size matter in social media posts or websites?"	Social + emotional engagement, promotes critical thinking
30–35 min	Peer Review (Workshop or Forum Reply)	Students give feedback on one peer's edited image.	Social interaction and collaborative learning
35–40 min	Wrap-Up + Reflection (Choice Activity)	Choose one thing you learned today and how you'll use it. (Moodle Choice or short answer)	Emotional + reflective engagement



STUDENT PARTICIPATION AND LEARNING OUTCOMES

"How do interactive features in Moodle impact student participation and learning outcomes in higher education courses?"

- **Educational Setting:** Was the study conducted in a higher education setting (university or college)?
- ✓ Learning Platform: Was Moodle used as the primary learning management system in the study?
- Interactive Features: Did the study investigate interactive Moodle features (such as forums, quizzes, work- shops, or wikis)?
- Outcome Measures: Did the study measure either student participation metrics or learning outcomes (or both)?
- Study Design: Is the study either an empirical investigation (quantitative, qualitative, or mixed methods) or a systematic review/meta-analysis?
- Data Analysis: If multiple learning management systems were studied, were Moodle-specific results reported separately?
- Participant Focus: Did the study include student outcomes (not exclusively focusing on teacher/administrator experiences)?

Study	Interactive Feature Type	Performance Metrics	Effect Size
Cohen and Sasson, 2016	Online quizzes, feedback	Quiz grades, time spent, final exam grade,	Improved grades, reduced time
Fitran et al., 2025	Adaptive content, feedback, gamification	Achievement scores, engagement	Higher scores in intervention
Cheng and Chui, 2015	Simulations, forums, journals	Essay grade, completed activities	Positive for networked/materials development
Peramunugamage et al., 2024	Forums, wikis, workshops	Motivation, wiki activity	Wiki views 2.0%→6.2%, updates 0.8%→1.1%
Mir et al., 2022	HTML5 Package (H5P) interactive video	Satisfaction, information quality	61–67% positive responses
Hasan et al., 2019	Gamified, discussions	Pre/post-test, engagement	Improved post-test scores
Goh et al., 2019	Peer review, feedback	Engagement, learning outcomes	Indirect effect via content interaction
Reis et al., 2015	Group discussion, video	Learning grades, involvement,	Moodle: 7.0–9.7, Lectures: 4.0–9.6
Gamage et al., 2022	Quizzes, forums, feedback	Performance, satisfaction	Improved outcomes (review)
Dimitrov and Kovatcheva, 2023	Gamification, feedback, HTML5 Package (H5P)	Final grades, student dropout	Grades: 5.0→5.75, lower student dropout



FUTURE TRENDS IN MOODLE ENGAGEMENT

To explore.....



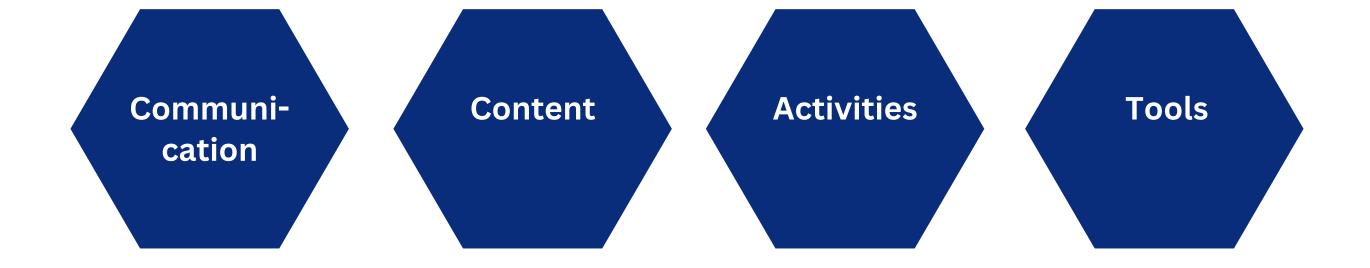






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SUMMARY OF KEY STRATEGIES





What matters?

Here's a summary of key strategies to improve student engagement in the Moodle platform, organized by engagement types:

Behavioral Engagement Strategies

Use Activity Completion Tracking

to motivate progress

Set Clear Deadlines

with reminders and countdown blocks

Gamify learning

Gamify learning with badges, completion certificates, or leaderboards

Enable Checklists

or To-Do Lists for weekly tasks



What matters?

Here's a summary of key strategies to improve student engagement in the Moodle platform, organized by engagement types:

Emotional Engagement Strategies

Personalize the Dashboard

with student names and welcoming messages

Use Icebreakers & Social Forums

to build community

Add Multimedia Elements

(images, videos, voice messages) to humanize content

Provide Timely, Encouraging Feedback

via comments or messages

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What matters?

Here's a summary of key strategies to improve student engagement in the Moodle platform, organized by engagement types: **Cognitive Engagement Strategies**

Incorporate H5P Activities

•(interactive videos, drag-and-drop, quizzes)

Use Real-World Scenarios

in assignments and discussions

Enable Glossaries, Wikis, or Journals

for reflection and critical thinking

Add Branching Scenarios or Case-Based Learning

using Lesson activity



What matters?

Here's a summary of key strategies to improve student engagement in the Moodle platform, organized by engagement types:

Social Engagement Strategies

Use Discussion Forums

with guided prompts and peer reply requirements

Assign Group Projects

with collaborative tools (e.g., Wiki, Database, or Forum)

Enable Peer Assessment

using the Workshop tool

Encourage Group Messaging

or Chat Activities





THANK YOU FOR YOUR ATTENTION

I hope this presentation was helpful, and I am open to any questions or further discussion.

norasykin@utm.my

