



MODULE 3: PROJECT-BASED LEARNING

Module Learning Outcome

1. Ability to grasp general concept on project-based learning approaches
2. Use project-based learning skills to undertake real-world projects
3. Able to design effective project that address social challenges in the African context



Session 1: Project-Based Learning 1

Introduction to Project-Based Learning (PBL)

What is Project-Based Learning (PBL) ?

Is a hands-on way of learning where students work on real-projects over time. Instead of just memorizing facts, they explore problems, find solutions and create something to show what they have done.

It's like learning by doing!

Key Characteristics of PBL

- **Authenticity:** Projects are centered on real-world issues that have relevance to students' lives
- **Collaboration:** Students often work in teams, promoting communication, teamwork and problem-solving.
- **Inquiry-Based:** PBL encourages students to ask questions, research, experiment and think critically to develop solutions.

Example of PBL Projects

- Designing a website for a local business.
- Building a robot to solve a specific task.
- Designing a smart home automation system.
- Creating a digital story about a historical event.



Designing Effective Projects in Context of PBL

Choosing a compelling driving question

The driving question is the heart of a PBL project. It should be open-ended, challenging, relevant and feasible

Examples:

- How can we design app to promote local tourism in our city?
- Can we build a robot to assist people with disabilities?

Establishing clear learning goals

Clearly define what students should know, understand and be able to do by the end of the project

Scaffolding the Learning Process

Break down the project into smaller, manageable tasks with clear deadlines. Provide resources, guidance and feedback at each stage to support student learning and progress.

Consider using a variety of instructional strategies, such as direct instruction, group work, research activities and peer view.

Fostering Collaboration and Communication

Encourage students to work in teams, sharing ideas, responsibilities and challenges.

Provide opportunities for them to practice effective communication skills, both within their teams and when presenting their work to a wider audience.



Project Implementation Strategies in Context of PBL

Clear Communication and Collaboration

Establish clear communication channels between teachers, students and any other external partners.

This may be achieved through regular check-ins, collaboration tools and open feedback loops.

Embrace Flexibility and Adaptability

PBL projects are dynamic, and things don't always go as planned. Be prepared to adapt and adjust as needed.

This is achievable through contingency planning and open to change (be willing to modify project goals)

Emphasize Process Over Product

While the final product or presentation is important, emphasize the learning process throughout the project.

Such process may include critical thinking, collaboration and research.

Activity

1. What are the steps in starting a PBL Project?
2. Write down at-least two examples of PBL project.
3. Name one benefit of PBL for students

- ❖ This marks the end of this lesson.
- ❖ In the next lesson we will learn about Use Case

THANK YOU