

**PROMOTING
CHILDREN LEARNING
DEVELOPMENT
STAGES IN TEACHING
BASIC NUMERACY**



Cici T. Wanita
INDONESIA







Basic Info

- Mentor: Nurbiha A. Shukor
- Link to the developed course:
<https://canvas.instructure.com/courses/1564158>
- License: CC - BY - SA

Introduction

- **Motivation:**
 - Textbook-driven > students' needs
 - Being part of a movement in providing education for all
- **Project objectives:**
 - Raising teachers' awareness about the importance of understanding how children learn throughout their daily teaching practice
 - Improving teachers' pedagogical content knowledge particularly on how children learn numbers
- **Target audience:** primary school teachers
- **SDG 4** which aims to “ensure inclusive and equitable quality education and promote lifelong learning opportunities for all” by 2030.



Project results

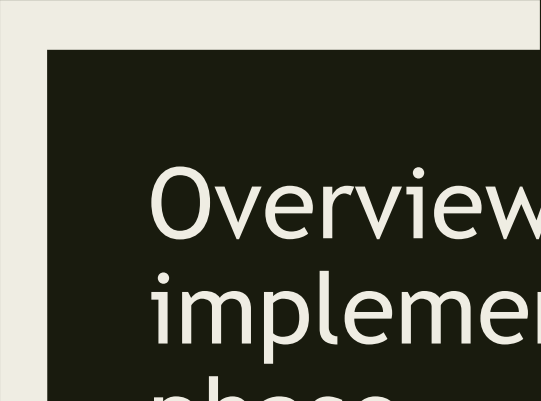
- The activities:
 - Probing questions from videos
 - Readings from books, articles
 - Solving case study
 - Discussion forum
- The focus of the project is about facilitating teachers to be able to teach Number to students based on their learning development stages. The topics are:
 - Number Sense
 - Place Value
 - Basic Number Operations.

The design took around 3 weeks to finish.

The main activities:

- **Exploring** any relevant sources (YouTube, articles, books, websites)
- **Structuring** the framework modules
- **Designing** the activities/assignments/task

Overview of design phase



Overview of implementation phase

- **Alignment**: aligning the collected sources with the content & pedagogical framework
 - ✓ Problem solving standard
 - ✓ Reasoning & proof standard
 - ✓ Communication standard
 - ✓ Connection standard
 - ✓ Representation standard
- **Setting**: trialing the potential learning platform (OpenLearning, Canvas)
- **Integration**: integrating the selected sources to Canvas
- **Registration**: 18 participants
- **Course period**: 13 May - 10 June



Overview of deployment phase

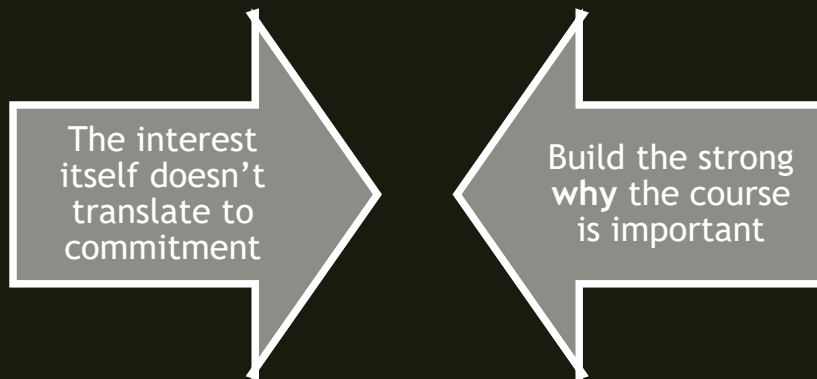
Implementation timeline

- Module 1 (Number Sense) : 13 - 20 May
- Module 2 (Place Value) : 20 - 27 May
- Module 3 (Basic Number Operations): 27 May - 3 June
- Final project (Developing lesson plan): 3 - 10 June

The course system

The participants had a week to finish each course.

The development process of the project



- The main challenges are:
 - ✓ Participants' unfamiliarity with learning platform → step-by-step guidance and individual assistance
 - ✓ The delivery language, → individual assistance and feedback on the platform
 - ✓ Participants' commitment, → emails reminding the course completion
 - ✓ Juggling between the project and personal work, → better time management
- The role of OE4BW and mentor are providing technical assistance and resources, and meeting the agreed timeline.

For the project,

- Recreate the design into more Indonesia context
- Explore what components that should be considered to make the project achieves the objectives
- Target more teachers with Indonesian language

For OE4BW,

- Share the lesson learned from previous year
- Identify the initial experiences of the participants to OER



Upcoming
plan

THANK YOU

