

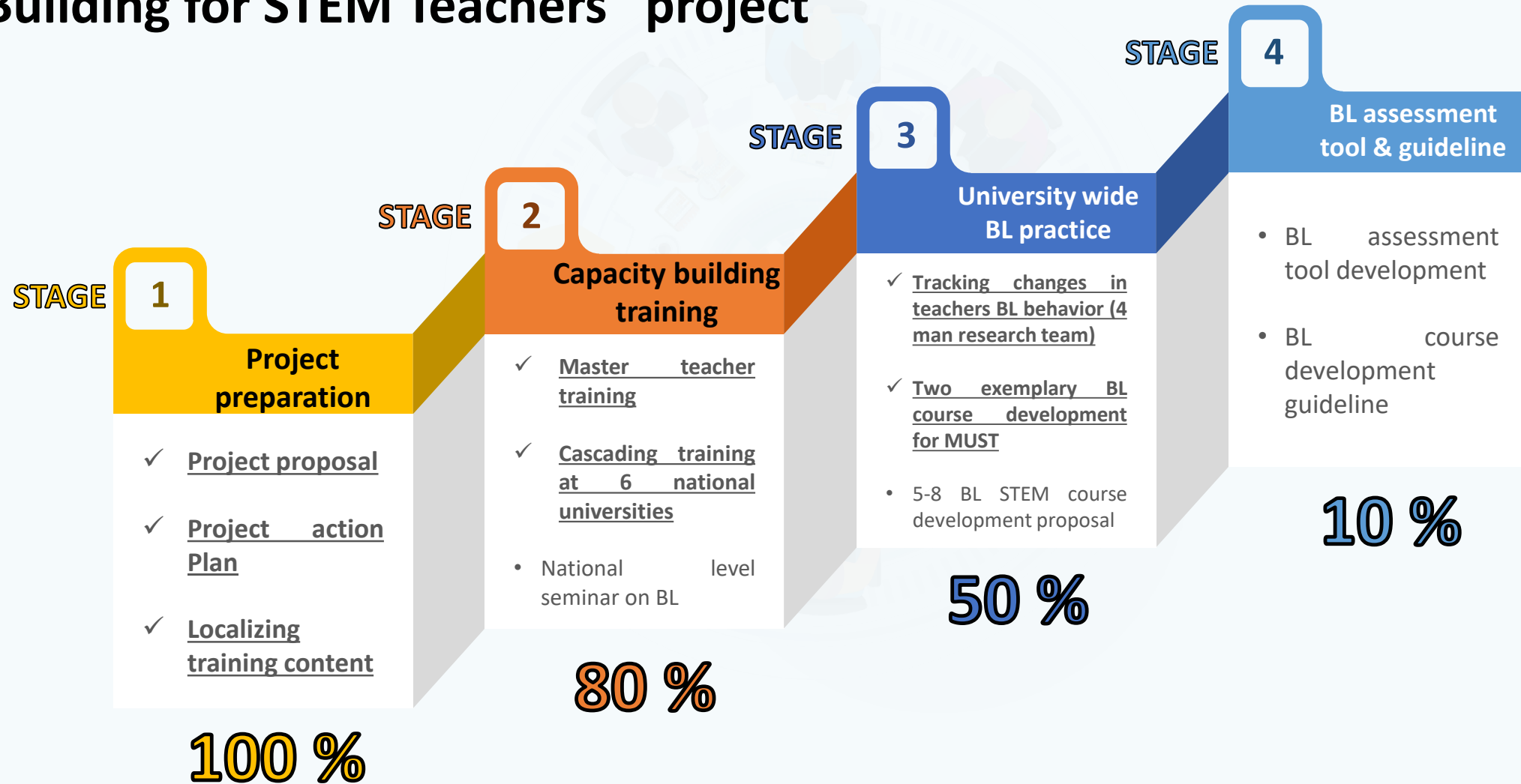
IIOE Pilot Project in Mongolia: Blended Learning Capacity Building for STEM Teachers

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❖ Project stages and expected outcomes of “Blended Learning Capacity Building for STEM Teachers” project



STAGE 2

Capacity building training

- ✓ Master teacher training
- Cascading training at 6 national universities
- National level seminar on BL

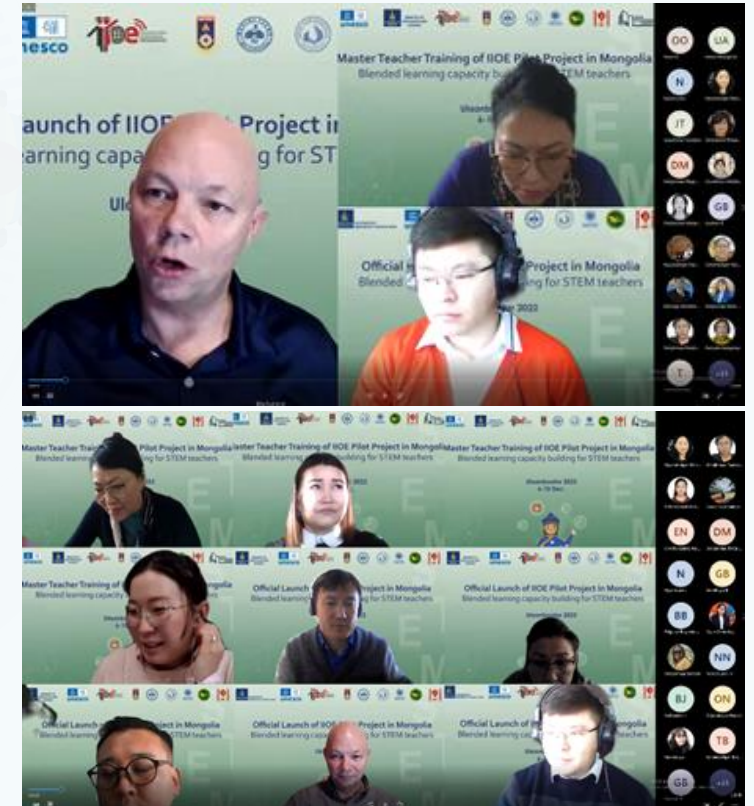
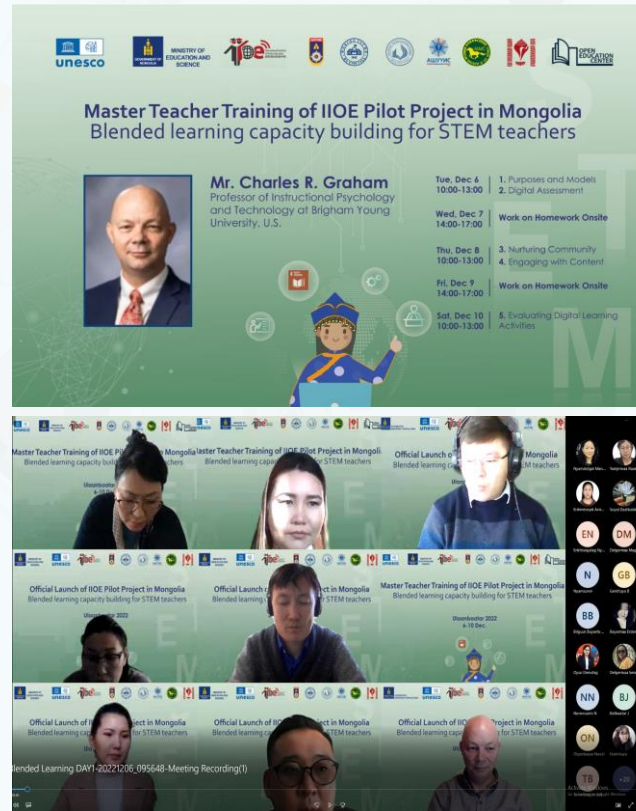
MASTER TEACHER TRAINING

- hybrid format combining 3 day of Synchronous online training (Dec 6th, 8th and 10th), and 2 day of onsite (face-to-face) discussion (Dec 7th and 9th).
- The on-site training was organized to support and motivate master teachers to apply their knowledge and skills to the practice.



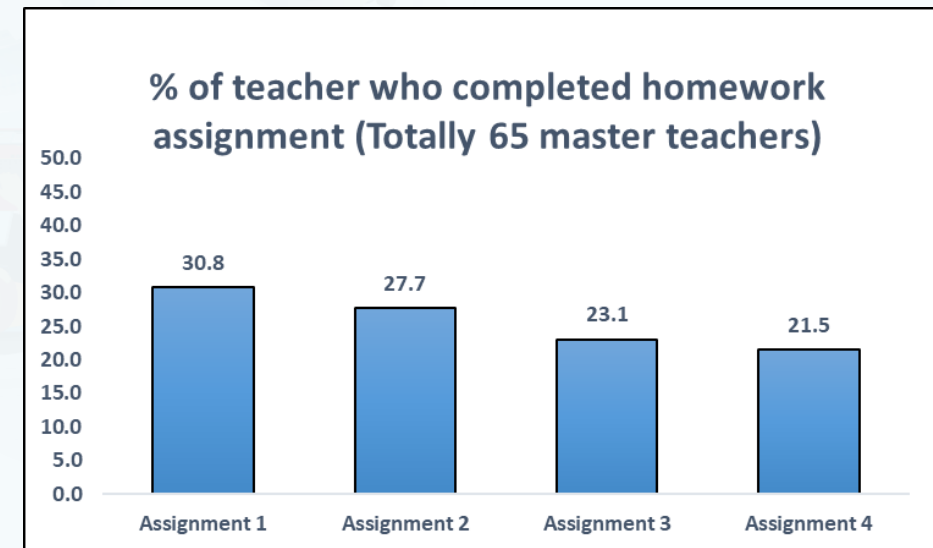
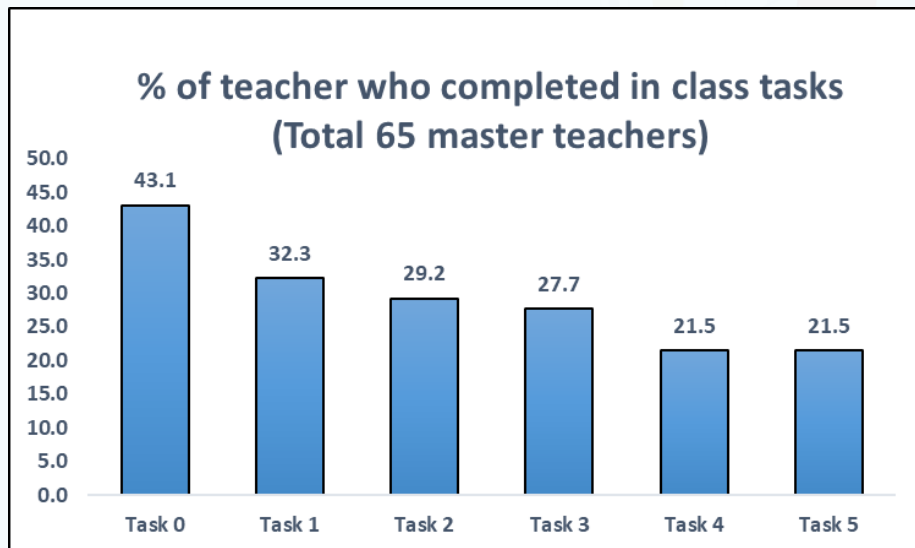
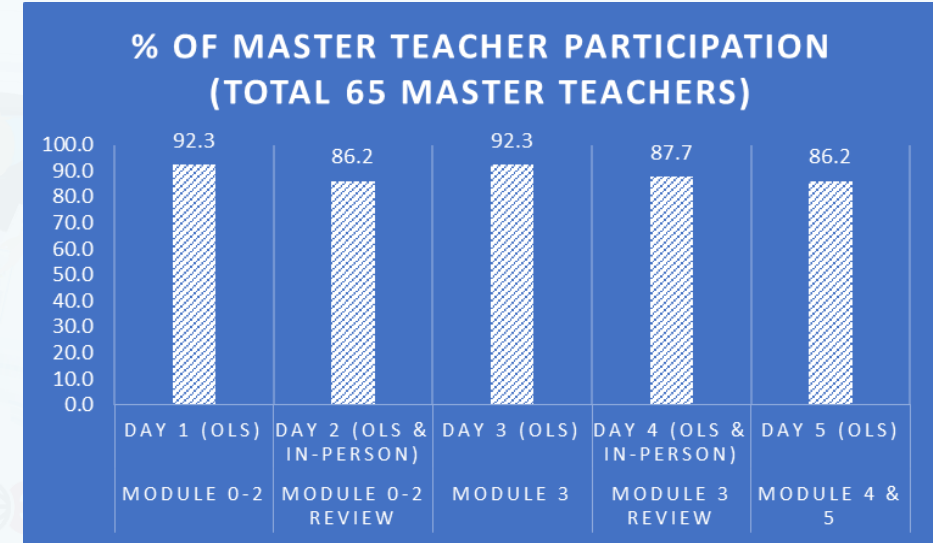
Translation and Localization of content

- 5 presentation files (ppt)
- Roadmap Blended Course Design Packet (31 pages of guidebook)



❖ Master teacher registration and participation of Master teacher training

- Totally, 65 master teachers from 6 national universities (NUM, MULS, MNUE, MNUAC and MNDU)
- 35 of 65 were from Mongolian University of Science and Technology.
- 80% female and 20% male.
- 43% - Ph.D, 55% - Master, and 2% - Bachelor degree
- 86.2-92.3% of registered teachers were attended



CASCADING TRAINING (257 teachers)

STAGE

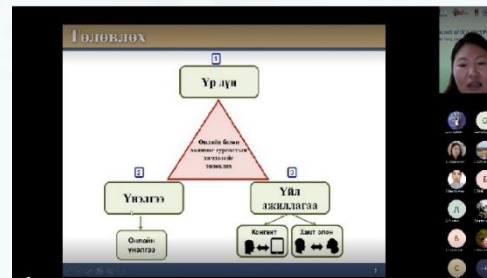
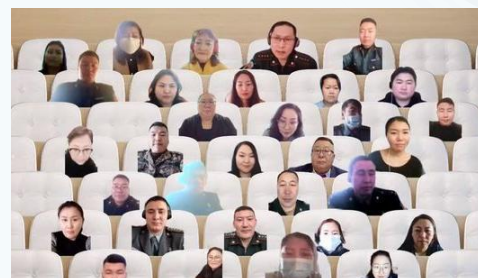
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Capacity building training

- ✓ Master teacher training
- Cascading training at 6 national universities
- National level seminar on BL



- 2 schools
- 20 teachers
- 9 schools
- 86 teachers
- 15 dep.
- 46 teachers
- 40 dep.
- 80 teachers
- 3 schools.
- 25 teachers
- upcoming
- upcoming



TRACKING CHANGES IN TEACHERS BL BEHAVIOR

STAGE

3



University wide
BL practice

- ✓ Two exemplary BL course development for MUST
- 5-8 BL STEM course development
- ✓ Tracking changes in teachers BL behaviour

MUST

Mongolian University of Science and Technology

Blended Teaching Readiness Report



	➤ Pre-Training	➤ POST-Training
Dispositions	33.36	36.73
Competency 1 - Online Integration	45.44	48.86
Competency 2 - Data Practices	31.27	35.68
Competency 3 - Personalizing	31.56	35.32
Competency 4: Online Interaction	32.09	36.68

STAGE

3



**University wide
BL practice**

- ✓ Two exemplary BL course development for MUST
- 5-8 BL STEM course development
- ✓ Tracking changes in teachers BL behaviour

Approval from undergraduate office to pilot two BL course in spring semester

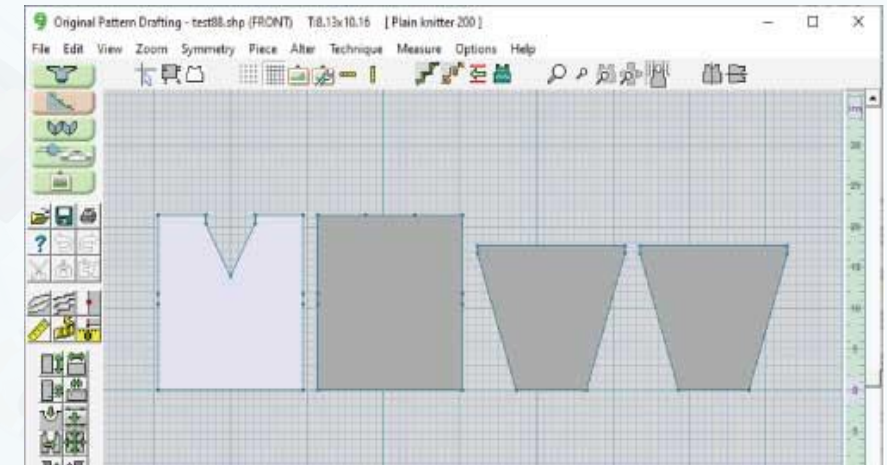
1. Engineering Mechanics



ENGINEERING MECHANICS

In-person (50%) --- Online (50%)

2. Knitwear pattern Design



In-person (60%) --- Online (40%)

[illegible]

❖ FUTURE WORKS:

- **National wide training and seminar** on BL that purposed to disseminate pilot project impact will be organized at April of 2023 in collaboration with national Institute Teacher Professional Development (ITPD).
- Evaluating the outcome and achievement of piloting **2 exemplary BL courses** in comparison with traditional face-to-face learning format (Engineering Mechanics & Knitwear pattern Design)
- Acquire **15-20 BL course development proposal** from other universities after Cascading and support 5-8 of them for BL practice.
- Development of **BL assessment tool** and **BL course development guideline**

Thank you!

