

The CL4STEM project builds the capacity of secondary school teachers in science and mathematics to foster higher-order thinking with inclusion and equity in classrooms. It piloted the Connected Learning Initiative innovation (CLIx, https://clix.tiss.edu) developed and scaled in India. The project is a collaboration among Ibrahim Badamasi Babangida University (IBBU) Nigeria, Samtse College of Education (SCE) Bhutan, Open University of Tanzania (OUT) and the Tata Institute of Social Sciences (TISS) India.

1. Principles

• Pedagogical Content Knowledge (PCK) • Inclusive & equitable education • Context specific & use of local resources • Social learning

2. TEs capacity enhancement (20 TEs/country)

- PCK/TPACK based OFRs
- Universal Design for Learning (UDL)
- · Design thinking
- Managing CoPs

13 OER based modules designed by TEs were offered to teachers

 Cell Structure o Atomic Structure o Genetics o Ecoloay Biology

> Moodle based Modules Math

o Algebra o Geometry Common Proportions Module

3. Intervention for teachers (77 teachers/country)

Mobile based Communities of Practice (CoPs)

and

Subject

based

CoPs

Sharing

practice

Support

teachers

Peer o Chemical Bonding o Organic Chemistry learning -Chemistry Common

Physics

- o Work Power & Eneray
- o Force & Motion
- o Electromagnetism

Practice based implementation

Lesson Plan

Reflect

Engage

Learners

TE evaluation

& Feedback

- TPD modules
- Evidence of adoption & diffusion

5. Outcomes

4. Outputs

- Change in Knowledge, Attitude & Practice (Competency) for teachers and teacher educators
- Social learning in CoPs

6. Research

Sharing

resources

• Impact on teacher's knowledge, attitude and practices • Innovation diffusion and teacher concerns/ usage

Scaling readiness



Step 3: Click run to start the animation



Board of Governors.



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