Course Objectives

To develop one's practice as a reflective secondary school subject teacher

To develop understanding and skills to nurture an interactive, active and inclusive classroom

To develop critical perspective, understanding and skills of ICT use for professional development and teaching-learning

To become an active member and participant of a community of professional practice

To develop specialised additional skills relevant to secondary school students and teaching

Framework (Based on NCFTE 2010)

Communities of Practice

Create teacher learning communities

Connect with subject experts and higher education institutes

Make local knowledge visible

Certificate Course

Blended mode

Developing reflective practitioners

Practice and research based pedagogy

Professional development through ICT

Pedagogic Pillars

Peer discussions

Relevant and authentic learning

Learning from mistakes

Value based practices

Teacher Professional Development

This course will enable sustained quality professional development for teachers at scale and improve student learning by,

- Enabling collaborative learning opportunities
- Providing access to courses in multiple Indian languages
- Nurturing the local ecosystem
- Accessing high quality technology enabled open curricular resources

Course requirements

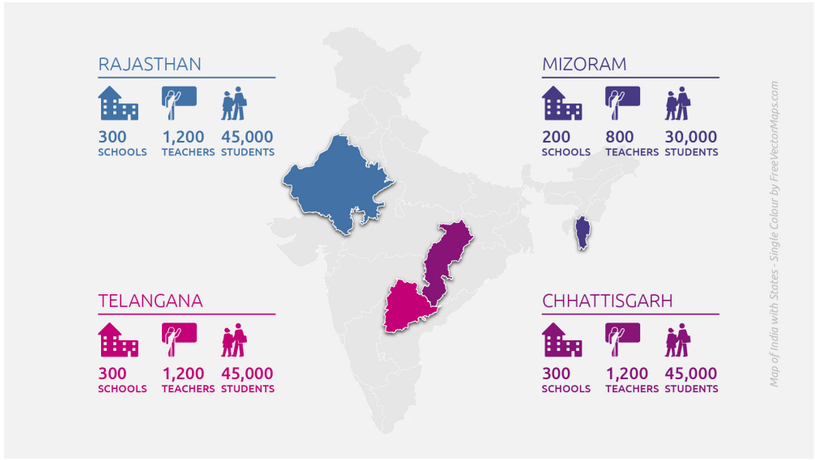
Teachers will need to bring their own device (BYOD).

A smart phone with internet to access the course and participate in online communities of practice

A computer with internet access to complete and upload assignments

About CLIx

The Connected Learning Initiative (CLIx) is an innovative field action programme launched by the **Centre for Education, Innovation and Action Research (CEI&AR)** to improve the professional and academic prospects of teachers and high school students from underserved communities in India. CLIx incorporates thoughtful pedagogical design and leverages contemporary technology to provide quality educational experiences at scale across disciplines. The project is currently being implemented in four states.



About TISS

The Tata Institute of Social Sciences (TISS) which was established in 1936 is a Deemed University fully funded by the University Grants Commission (UGC), Government of India. The TISS offers a range of professional programmes and research degrees from its Mumbai, Tuljapur, Guwahati and Hyderabad campuses.

An initiative seeded by

TATA TRUSTS

Founding partners

TISS

Massachusetts Institute of Technology

Post Graduate Certificate in Reflective Teaching with ICT

for in-service teachers of elementary and secondary schools

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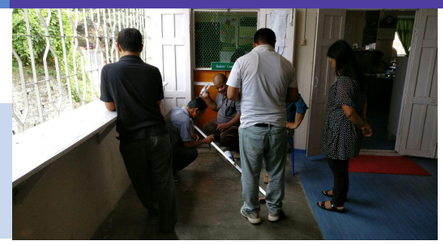
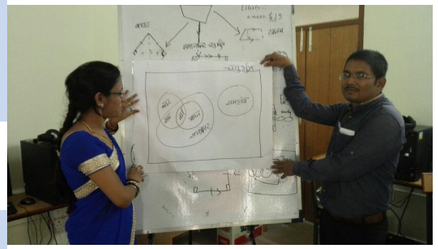
Course	Objectives	Units
Minimum 17 Credits required for certification	**Compulsory**	
Introduction to ICT in Education (12 weeks, 4 credits)	Develop and teach digital literacy skills Utilise ICT for professional development Implement ICT based pedagogy and reflect on the experience	ICT access, Learners and learning Curriculum connect, ICT practices in education in India ICT for professional development
Action Research / Digital Portfolio (12 weeks, 3 credits)	Conduct research in teaching Compile reflective portfolio using practice-based artefacts	Subject specific study of classroom practice leading to a research report **OR** A digital portfolio of learning artefacts
	Specialisation	
Communicative English Language Teaching (12 weeks, 4 credits)	Examine the impact of socio-cultural factors in language learning Engage with learning principles to facilitate language learning with a focus on communicative language teaching	The social context of language learning The second language classroom New possibilities for language teaching Developing language proficiency Exploration of resources for language learning and teaching
Reflective Mathematics Teaching (12 weeks, 4 credits)	Develop understanding of core mathematics ideas, processes and inter-connections Engage with students' thinking and formative assessment	Exploring and using a technology integrated resource Student learning and assessment Resources for teaching Mathematical ideas, concepts and processes Collaborative project
Interactive Science Teaching (12 weeks, 4 credits)	Orient to the aims of science education Enrich science pedagogical content knowledge	What is this thing called science and how does it develop? What should we know while teaching science? How do the principles translate into practice? What should students learn? Implementing student's module
	Electives	
Values Development in Adolescents (6 weeks, 2 credits)	Understand values development process in relation to the adolescent child Develop sensitivity to social context and issues	Values and human behaviour How behavioural patterns can change Facilitating values learning discussions Understanding context: Adolescence and social stereotypes Reflections on the role of the teacher
Media in the Classroom (6 weeks, 2 credits)	Develop teachers' understanding of nature of media Enable teachers to integrate media tools in lessons	Media ecology Media in action Implementing media in the classroom
Hands-on learning through toy-making (6 weeks, 2 credits)	Practise hands-on skills, problem solving and open ended thinking through toy-making	Prepare Toys: Sprinkler, spray, flute, magnetic pen stand (vertical & horizontal) Implement with students supported online by community of practice

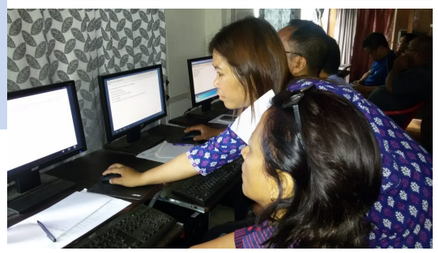
Images from the field

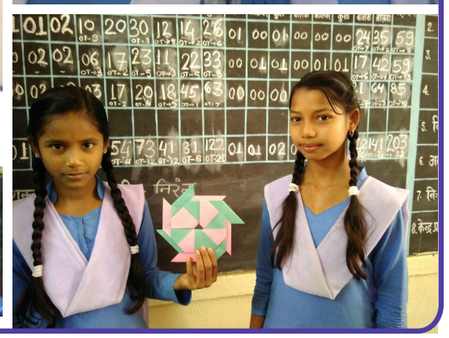












ONLINE

Teachers will engage with course curriculum via the OpenEdX platform

FACE TO FACE

Teachers will interact with experts in workshops and gain hands-on experience

PRACTICE

Teachers will implement the ICT enabled modules in the classroom, record and reflect on their practice