

## 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

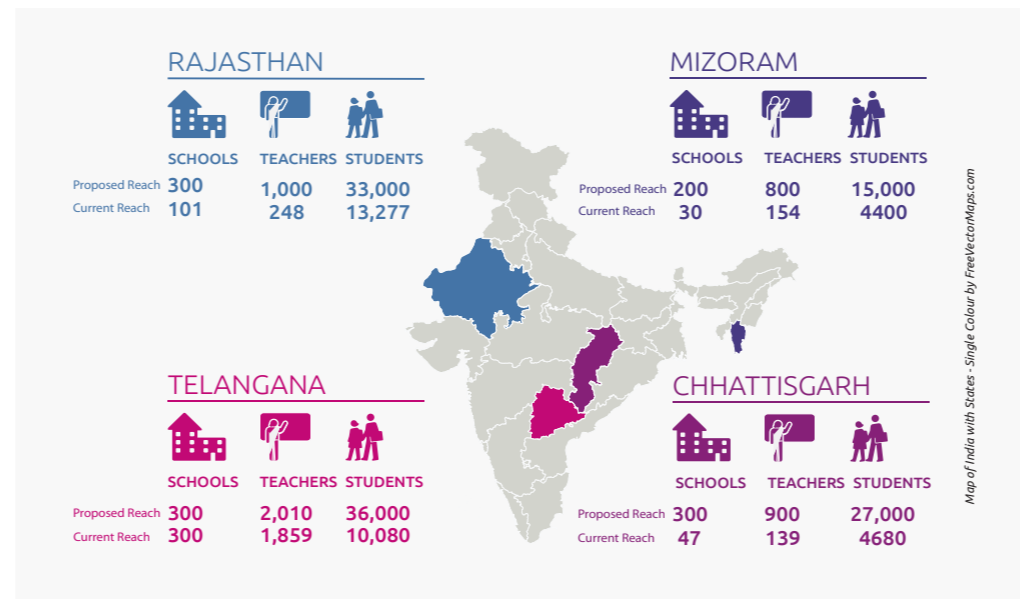
A computer with internet access to complete and upload assignments



## About

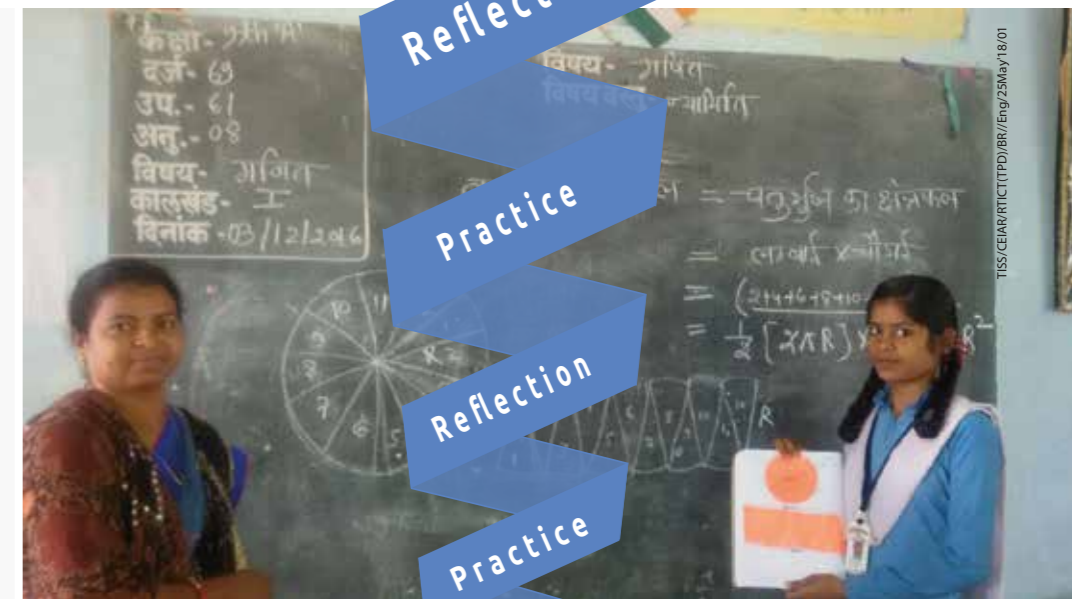


The Connected Learning Initiative (CLIX) is an innovative field action programme launched by the **Centre for Education, Innovation and Action Research (CEI&AR)** to improve the professional and academic prospects of teachers and high school students from underserved communities in India. CLIX incorporates 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.



## Post Graduate Certificate in Reflective Teaching with ICT

for in-service teachers of elementary and secondary schools

An initiative seeded by

**TATA TRUSTS**



Led by



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## Course

## Objectives

## Units

## Images from the field

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

#### 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