

# ET611Tx: Pedagogy for effective use of ICT for school teachers

Conducted By:



IDP in Educational Technology, IIT Bombay

Partially Sponsored By:



- **Logistical Details :**

- Prerequisite: *NA*
- Duration: *4 weeks*
  - Start Date: *July 26, 2018*
  - End Date: *August 22, 2018*

[Note: Pre-course activities will start before July 26, 2018]

- Certification:

Honor code certificate will be awarded by IITBombayX if minimum 50% aggregate secured

- **Course Content Details:**

- Course Outline:
  - Pre-course activity: Familiarizing with IITBombayX Platform
  - Module 1: Technology Primer
  - Module 2: Active Learning & Classroom Strategies
  - Module 3: Effective integration of visualizations
  - Module 4: Putting it all together

### ○ About the course:

There exists research-based evidence which shows that lecturing or mere demonstrations with Information & Communication Technology (ICT) tools are not effective for student learning, especially for higher order thinking skills. Instead, students learn effectively when they do carefully designed activities in class with the technologies; get feedback on their work immediately, and when the assessment is aligned to these activities. Given this context, the goals of the course are:

- Facilitate transition from teacher-centric to student-centric while teaching with ICT
- Identify relevant ICT tools for teaching-learning goals
- Design student-centric activities and aligned assessment using ICT tools
- Develop a collaborative community of teachers to share best-practices and experiences

### ○ Instructors:

Prof. Sridhar Iyer, Prof. Sahana Murthy, Dr. Gargi Banerjee & Dr. Jayakrishnan M. (IDP- Educational Technology, IIT Bombay)

### ○ About IDP-Educational Technology, IIT Bombay:

The Inter-disciplinary Program in Educational Technology (IDP-ET) at IIT Bombay (<http://www.et.iitb.ac.in/>) is actively involved in research and education in the following areas of teaching- learning. The thrust areas of research and development are:

- Teacher use of technological tools (TUET)
- Technology-enhanced learning of thinking skills (TELoTS)

### ○ Course Activities

You will find the activities and grading policy explained in detail in the '**Course Format**' video that will be released in Module 1. Given below is an overview of the course activities.

The course will have **Learning Dialogues** (LeDs) by instructors that familiarize you with the course content. These LeDs will contain lectures + **Reflection Spots**. When you reach a reflection spot, you are to pause the video and then think, reflect and write how the discussed content will be applicable in your own context. The LeD videos also will have **Learning by Doing** (LbD) activities that are small activities aimed at giving you practice in the content discussed within LeD. There will also be Learning Extensions (LxT) which maybe videos or text. These are supplementary content to advance your learning. There will be very short **Assimilation Quizzes** based on LxT resources.

We expect all participants to take part in **Learning Experience Interactions (LxI)** in the discussion forum that will be driven by guiding questions. The learning from the discussion is expected to advance your learning by discussing course content and sharing your experiences with others. There will be short **Reflection Quizzes** based on LxIs.

There will also be 2 other type of assignments:

- Knowledge Quiz – This will be summative assessment of current week's course contents
- Resource Creation Assignments – These will be open-ended assignments wherein you will create resources for your own context.

### ○ Marks Distribution across assignments

Sr. No	Assignment (number of)	Weightage (%)
1	Knowledge Quizzes (4)	60
2	Resource Creation Assignment (1)	20
3	Reflection Quizzes (4)	10
4	Assimilation Quizzes (4)	10