Introduction

Online educational methodology, and flipped-classrooms with associated pedagogy of active learning, have quickly emerged as the mainstay of effective education in this century. However, most of our teachers lack skills and competencies for proper and effective use of ICT in education. It is thus an urgent national requirement that all our teachers, at least those teaching in our professional colleges, are empowered to use technology effectively, to enhance the quality of education.

To meet this requirement, IIT Bombay has specially designed the two-part FDP course. This was first offered in 2017. The second course under this FDP, with a focus on technology, is titled "Pedagogy for Online and Blended Teaching-Learning Process" and is designed as a Blended MOOC (Massive Open Online Course) — FDP201x. There will be two weekend face-to-face sessions at the Remote Centres. The course will be offered from 3 May 2018 till 30 May 2018.

Learning Objectives for the Course

After successful completion of the course, participants will be able to:

- Integrate active learning in their regular teaching-learning practice
- ii. Create an Open Educational Resource to be used in their classrooms
- iii. Justify the blending of online instruction in their regular teaching-learning practice
- iv. Participate in Collaborative Community involved in Open Education Resource creation and dissemination

Teaching Faculty

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Prof. Sridhar lyer, IDP in ET, IIT Bombay

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Course Content

1. Effective Blended/Hybrid Education

- Using available online resources in regular classroom
- Pedagogy of Active Learning
 - Think-Pair-Share
 - Peer Instruction
 - o Collaborative Problem Solving
- Flipped Classroom

2. Online Courses

- Designing and Developing a MOOC
- Conducting a MOOC
- Effective Use of Discussion Forum
- Methods of Online Assessment
- Exposure to various MOOC platforms

3. Adopting Online/Blended Education in Teaching-Learning Process

- Using available autonomy
 - Implementing Flipped Classrooms
 - Recognition of Grades and Credits through MOOCs
 - Factoring in marks of online assessment in regular courses
- Using "Assessment for Learning" while blending instruction
 - Rubrics: Facilitating Local Assessments, Evaluation Reports and Presentations
 - o What, why and How of Peer Assessment

4. Building and Nurturing Collaborative Communities

- Open Educational Resources (OERs)
- Lessons from Open Source Community Evolving Leaders and Mentors
- Creating and using an OER
 - o Crowdsourcing methods
 - Quality Assurance
 - o Implementing OER in your classroom
- Participation in Sectoral Communities

Criteria for Certification

IIT Bombay will award certificates only to those participants who: successfully complete prescribed online tests with minimum 50% aggregate score, meaningfully participate in face-to-face sessions, and submitted the team assignment. AICTE has recognized this as a Two-week FDP.

Note 1: This FDP is conducted under the PMMMNMTT of IIT Bombay. Live recording of the course and other created content will be released under Open Source, through a portal. All participants are required to sign a No Objection Certificate for such release of content contributed by them during and after the FDP. All contributors will be acknowledged.

Note 2: Since the contents are being released under Creative Commons, participants have to ensure that they provide accurate citations. All the content generated will undergo check for plagiarism and plagiarism detected will lead to cancellation of registration and serious disciplinary actions.

Who Should Attend

As this FDP is not subject-specific, teaching faculty from any domain, including faculty from management institutes and polytechnics, can participate. Teachers registered in a Masters or a PhD program, during their employment as a teacher, can also participate.

Participants, who have not certified in the earlier FDPs (2016, 2017), are eligible to participate in the FDP.

Duration and Venue

This four week FDP consists of three components as follows:

- 1. Online work by individual participants: Each participant is expected to access the online platform, using a PC at home or office, on any convenient day and time during the week, with an online test every week. Each participant has to spend 6 to 8 hours of efforts per week during this component of the FDP. This is equivalent to one day of work in a regular FDP. This activity will be spread over 4 calendar weeks: From Thursday 3 May 2018 to Wednesday 30 May 2018.
- **2. Face-to-Face interaction:** Participants will have to physically attend these sessions at their chosen or designated Remote Centres (RCs), established across the country by IIT Bombay. Focused interactive sessions with the participating teachers, will be conducted by the faculty from IIT Bombay. The discussions and local tutorial sessions will be moderated by the Workshop Coordinators appointed at each RC. This activity will be conducted on the weekends of: 12 & 13 May 2018 and 26 & 27 May 2018.
- **3. Team Assignment:** The participants have to form a team of 2-3 members and prepare an Open Educational Resource based on their learning in the FDPs. This would be submitted for peer review. Submission of Team Assignment is mandatory for certification.

Course Fee

There is no extra fees to be paid by the participants who have qualified in FDP101x in 2018.

Participants who had attended previous FDPs, but were unable to complete can request the Remote Centre for a waiver in registration fees of Rs.1000. However the final decision on the application will be that of the remote centre.

For food and stay, the participant will have to bear extra charges as per the rates advertised by the centre. This is optional for the participants; only if they wish to avail the facility.

How to Apply

The registration for FDP201x - "Pedagogy for Online and Blended Teaching-Learning Process" will be limited to participants, who successfully complete the FDP101x.

Address for communication:

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Two-Week AICTE approved FDP

Under the aegis of Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNMTT) on

"Pedagogy for Online and Blended Teaching-Learning Process"

(This MOOC based FDP will be conducted in a blended mode over a longer period as explained in "Duration and Venue" and is a rerun of FDP201x offered in 2017)

03 May to 30 May 2018

Conducted by

IIT Bombay



Course Coordinator

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