Blended MOOCs for Quality at Scale

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IITB: T10KT and Spoken Tutorials

• Training 10,000 teachers at a time
  – Participants attend from multiple Institutions (Remote Centres)
  – Over 1,60,000 teachers trained

• More than 7500 Spoken Tutorials
  – 77,000+ training workshops
  – 4 Million persons trained to use
T10KT and associated activities

• Distance Education Program
  – Planned in 97-98; part of School of IT
  – Launched in 2002 using VSATs
  – 2005: Teacher Training, TIFAC support
  – 2009: 1000 Teachers, NMEICT support
  – 2012: T10KT launched
Workshop for coordinators
Participants in a Remote Centre
The MOOCs avalanche

• Started less than 10 years ago
  – Picked up traction since 2012
• Great Promise
  – Anyone, anytime, anywhere
• Scale of outreach is the real gain
  – Quality impact yet to be seen
IITBombayX

• Planning started in 2011-12
• MoU with EdX in 2013
• Platform development in 2014
  – Built on open-edX
  – Launched on 26 January 2015
  – Extended for blended/hybrid use
The hybrid model

- ‘Blend’ of face-to-face + online MOOC
  - Advocated in 2013-14
  - Adoption since 2015
- Flipped classroom within an institute
- IITB pilot with 50 Institutes
  - 3 courses; weightage to online exams
  - ~20,000 out of ~1,00,000 MOOC learners
Key points

• Learners learn by
  • Thinking, discussing
  • Doing, practising, solving
• Teacher as learning-facilitator
  • Not knowledge-deliverer
• Timely interventions are critical
Skilling MOOCs

• Useful courses, not easily available
  – Stress on livelihood training

• SKANI101X: Animation using blender
  – Designed and Offered by Dr Sameer
  – Innovations in learner engagement

• New: College to Corporate Program
1st Offering

8.9
Got Certificates

2nd Offering

20.0
Got Certificates

3rd Offering

32.4
Got Certificates

82.3% participants got certificates, who interacted

Participants were offered internships by Animation Studios and eLearning companies
Punch Kanyas of Borawan
Blender’ers of Rajkot

Shri Labhubhai Trivedi Institute of Engineering & Technology
(Approved by AICTE & Affiliated with GU)

Successfully Completed IIT Bombay Certified Online Animation Course

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Skill program: hybrid MOOCs

- College to corporate: 4 short courses
  - Soft Skills, Workplace Communication
  - Financial literacy, Technical skills

- 150 colleges, ~20,000 students
  - Online MOOC
  - IITB Face-to-face sessions on Saturdays
  - Local supervised activities
Students from Pandharpur
Students from Dawangere
Students from Panipat
Efforts at IIT Bombay

• Educational Technology
  – 4 faculty members
  – 25 Research Scholars

• School of Education planned
  – Research: To invent
  – Pedagogy and tools: To innovate
  – Outreach at Scale: To implement
Current status

• ESOS: Educational Services for Outreach at Scale
• Four categories of blended MOOCs
  – Edu, Skill, Teacher, and Life MOOCs
  – Soft Skills offered as a paid course
  – January 2018
• FDPs target is 1 Million teachers
• Skill MOOCs target is 10 Million
Our Motto
Invent, Innovate, Implement
Thank You