

Online Teaching: Challenge, Technique and Opportunity

ICT 20 @COVID -19
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Agenda

- ❖ Introduction
- ❖ Online Teaching Challenge
- ❖ Online Teaching Technique
- ❖ Online Teaching Opportunity
- ❖ ICT Tools for Effective online Teaching –India
- ❖ Conclusion

Introduction

- ✓ In COVID-19 pandemic, **Distance Learning Practices** (DLP) are important to avoid academic loss of students,
- ✓ Acc. to ITU data 93 % of the global population within reach of mobile broadband (3G network or higher),
- ✓ yet [3.6 billion people remain offline](#).
- ✓ Internet access is crucial for the day-to-day economy
- ✓ UNESCO has launched a [global partnership](#) for scaling up DLP.
- ✓ IUT private sector partnership e.g Microsoft, GSMA, Weidong, Google, Facebook, KPMG and Coursera, who are "contributing resources"

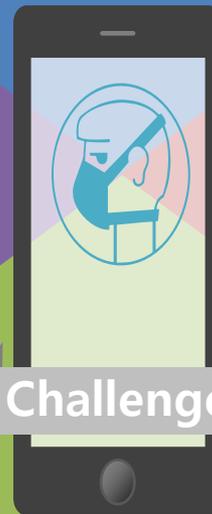
Online Teaching : Challenge



*re-envisioning course goals,
activities, and assessments.*



*a knowledge and comfort
in the use of technology.*



Challenge



*Capacity to use the medium
to its advantage
Availability at anytime
Providing quick responses and
feedback to students*



*building a community of learners.
facilitating discussions.*

Online Teaching : Technique

- ✓ ***Requiring a knowledge and comfort in use of technology.***
 - ✓ Familiar with online learning management and Web technologies function to leverage instruction in pedagogically sound ways.
- ✓ ***Re-envisioning course goals, activities, and assessments***
 - ✓ Going on takes Considerable time and energy upfront
 - ✓ Prepare Well in advance
 - ✓ Considering unique features of an online course, the use of visual and verbal cues etc
- ✓ ***Building a community of learners***
 - ✓ Need of frequent contact with students
 - ✓ PBL and growing proficiency in course outcomes.
- ✓ ***Facilitating discussions***
 - ✓ Create cohesion among Learner,Setting Expectations
 - ✓ content-specific dialogue,Creation of Comfort zone for students

Online Teaching :Opportunity

- ***Quality educational content***
 - Access and Create a multitude of online educational content
- ***Tailoring approach to deliver personalized learning***
 - Variety of digital tools and services (apps, games, websites, etc.) offers no. of approaches to learning
 - learners can choose the approach that best suits them.
 - AI based approached for weaker students
- ***Collaborating with others to test understanding of new knowledge and skills***
- ***Opening up experiences and opportunities for learners***

ICT Tools for Effective Online Teaching – India

- ❖ Internet Access to only 36% of the Indian population
- ❖ By 2024 internet access to reach 85% households.
- ❖ Approximately 2/3 of municipal school students in rural areas are unable to access teaching material as they don't have internet access.
- ❖ CM gives directions regarding online education, broadcasting through TV, and development of e-content .
- ❖ HRD Ministry, NCERT, CEC developed online education contents

ICT Tools for Effective Online Teaching – India

➤ **SWAYAM Online Courses:** (swayam.gov.in)

- ✓ access to teaching-learning resources.
- ✓ Available in 8 Indian Language Hindi, Telugu.
- ✓ Credit transfer for 20% course, Duration - 8-12 weeks.
- ✓ 327 out of 400 MOOCs Courses have been offered on SWAYAM
- ✓ 6,00,000+ registered students.

✓ **UG/PG MOOCs:** (ugcmoocs.inflibnet.ac.in)

- ✓ hosts learning material of the SWAYAM UG 232 and PG (Non -Technology) 131 archived courses.

➤ **e-PG Pathshala:** (epgp.inflibnet.ac.in)

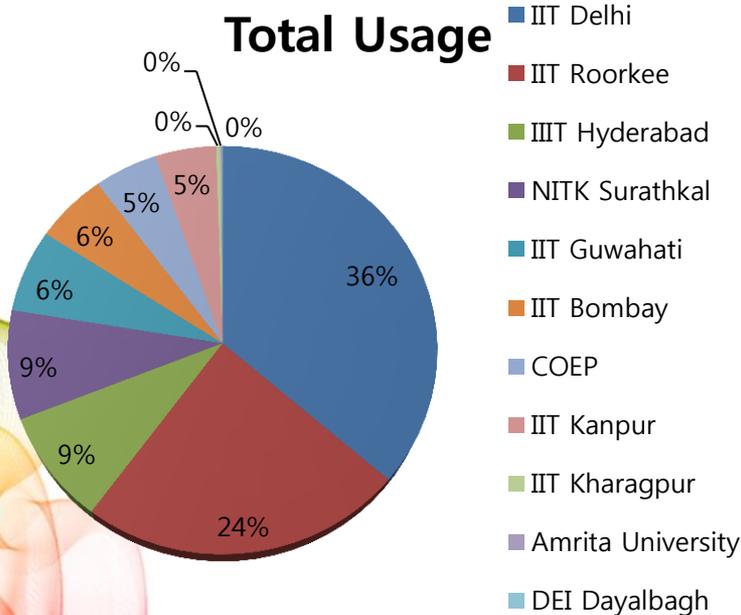
- ✓ 23,000 modules (e-text and video) in 70 Post Graduate
- ✓ social sciences, arts, fine arts and humanities, natural & mathematical sciences.

ICT Tools for Effective online Teaching – India

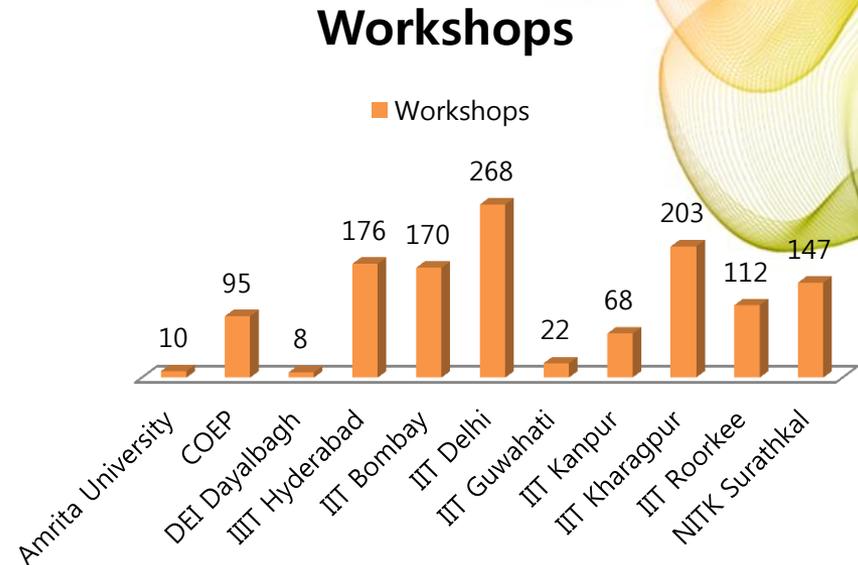
- **e-Shodh Sindhu:** (ess.inflibnet.ac.in)
 - ✓ 15,000 core and peer-reviewed journals and a number of bibliographic, citation and factual databases in different disciplines
- **Vidwan:** (vidwan.inflibnet.ac.in)
 - ✓ database of experts
 - ✓ prospective collaborators,
 - ✓ funding agencies policymakers
 - ✓ research scholar
 - ✓ Faculty registered
- **Virtual Labs :** (<http://www.vlab.co.in/>)
 - ✓ Platform for remote-experimentation-
 - ✓ No of Virtual Labs -100,
 - ✓ web-enabled experiments -700+

ICT Tools for Effective Online Teaching –India

Virtual Labs : (<http://www.vlab.co.in/>)



As % of Total usage:
2,649,532

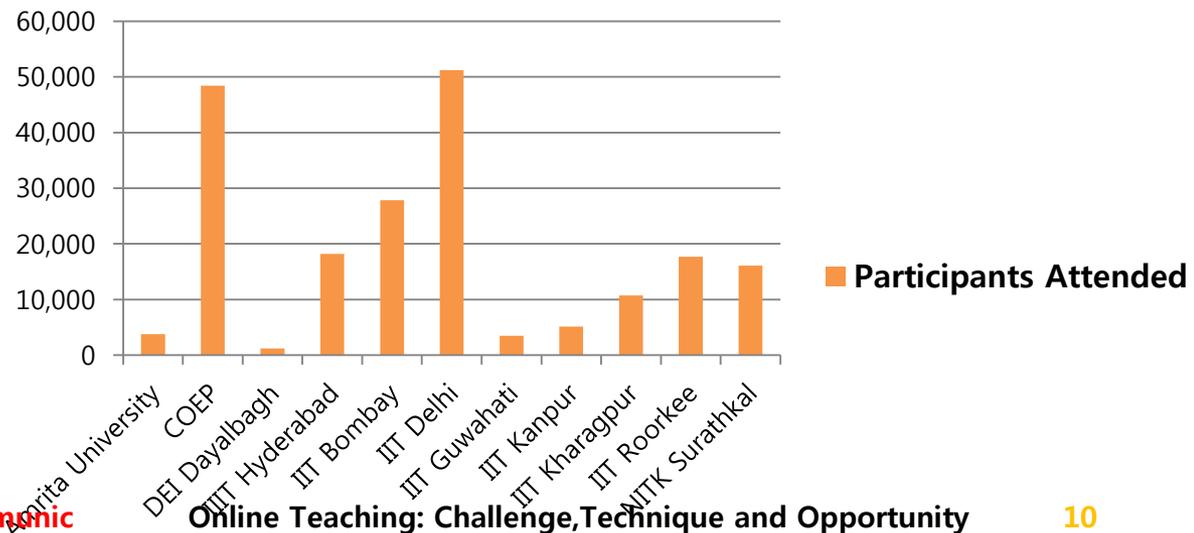
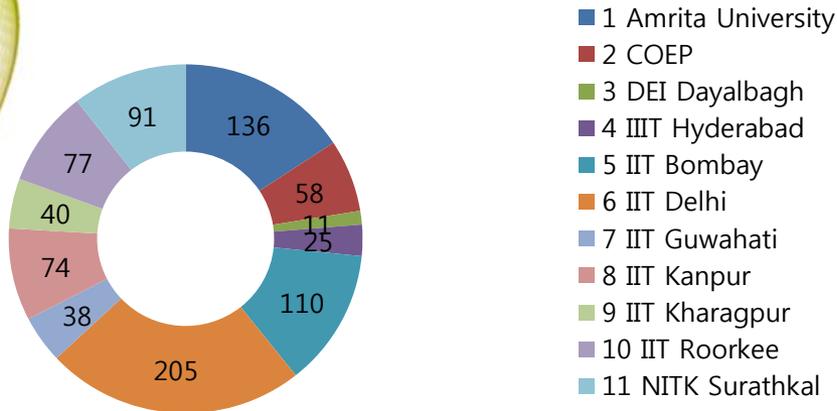


ICT Tools for Effective Online Teaching

– India

Virtual Labs : (<http://www.vlab.co.in/>)

Total Active Nodal Centers



ICT Tools for Effective Online Teaching – India

➤ e-Content courseware in UG subjects:

(<http://cec.nic.in>) (Consortium for Educational Communication)

- ✓ UG courses :87, Modules :24,110
- ✓ Dissemination of Educational programs through broadcast as well as non-broadcast modes.

➤ SWAYAMPRABHA: (swavamprabha.gov.in)

- ✓ 32 DTH channels(free to air) , school education (classes IX to XII)
- ✓ higher education (undergraduate, postgraduate, engg.
- ✓ Out-of-school children, vocational courses and teacher training)
- ✓ 6 to 8 hours of fresh programmes every day which are repeated 3 times a day
- ✓ **Vyas:** 3 hrs live lectures and 9 hrs of recorded content is

ICT Tools for Effective Online Teaching

–India

- **CEC-UGC YouTube channel** ([CEC-UGC YouTube channel](#))
unlimited educational curriculum based lectures absolutely free.
- **National Digital Library:** ndl.iitkgp.ac.in
 - ✓ digital repository, different formats ,diff. Indian languages for all academic levels including researchers and life-long learners, all disciplines, differently-abled learners also
- **Shodhganga:** shodhganga.inflibnet.ac.in
 - ✓ 2, 60,000 Indian Electronic Thesis and Dissertations Available to scholarly community in open access.
- **NEAT –AICTE :** neat.aicte-india.org
 - ✓ National Education Alliance for Technology
 - ✓ Given to the students/Faculty of Technology
 - ✓ Certification

ICT Tools for Effective Online Teaching –India

➤ SCHOOL EDUCATION DIKSHA:

<https://diksha.gov.in> or <https://seshaqun.gov.in/shaqun>

- ✓ 80,000 e-Books for classes I to XII created by CBSE, NCERT and States / UT ,multiple languages.

➤ e-PATHSHALA: <http://epathshala.nic.in> or <http://epathshala.gov.in>.

- ✓ I to XII std
- ✓ 1886 audios, 2000 videos, 696 e-Books (ePubs) and 504 Flip Books

➤ Other Platforms

- ✓ Like Google classroom, telegram,team link,Cisco webex, Couresa, Udemy, Audacity, Whiteboard many more are being used.

- ✓ **MOODLE** very effective for taking Exam, Assignments



Conclusion

- ✓ Various aspects of Online teaching has been presented
- ✓ Online Teaching Platforms in India



Thank You