Session 3: Innovative approaches to teaching and learning: The role of academic institutions in building a workforce fit for purpose

Moderator
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Session 3

Innovative approaches to teaching and learning: the role of academic institutions in building a workforce fit for purpose

Monday, 18 June, 16:00 – 17:30

Global ICT Capacity Building Symposium (CBS)

Santo Domingo, Dominican Republic, 18-20 June 2018
The Challenge

260 million children are out of school (UNESCO)

China is building the equivalent of one university a week to meet demand (BBC)

As much of a third of the US workforce is at risk of losing jobs due to AI and automation by 2030 (McKinsey)
Technology complementing humans...not?
WHAT WE KNOW

▸ We learn by constructing a model of the world
▸ We do it in small chunks
▸ Immediate testing is good
▸ Forgetting and reminding is key to learning
▸ Changeup helps learning
▸ Context is critical
▸ Hands-on helps learning
▸ Just in time learning works
▸ Applicability is important
▸ Use of knowledge embeds lessons
WHAT WE KNOW

After everyone studied for 7 minutes they...
- studied more
- took a practice test

Final test took place after...
- 5 Min
- 2 Days
- 1 Week

Facts Recalled

50%
60%
70%
80%
90%

30%
40%
50%
60%
70%
80%
90%

Reactivation Curve
Spaced Learning Curve
Normal Learning Curve
Spaced Forgetting Curve
Normal Forgetting Curve

This requires a fundamentally different approach to learning.
The learning experience has to change

We must learn how to learn, every day, forever!
MIT'S RESPONSE TO THE CHALLENGE

Launch a world education lab

Digital learning
Residential innovation
Learning science
MIT faculty creativity

Use MIT resources
Engage community of collaborators

Sustainable, worldwide transformation in Education
J-WEL’s Approach

Leverages the power of community
Reduces cost to members
Maximizes MIT faculty engagement
Generates new knowledge
Preserves useful knowledge
J-WEL’s Structure

pK-12

Higher Education

Workplace Learning
Provide research-driven insights and tools that help individuals and organizations to develop the skills they need to thrive in the modern economy.

Contact: Enrique Shadah (eshadah@mit.edu)
FOCUS OF OUR COLLABORATIVE

View of employer and worker

Skill trends and gaps

Employment and employment readiness

Learning and training and practice

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Co-create solutions to address your biggest challenges

- **Impact of Learning**
  - Matching
  - Measurement

- **Specific Content**
  - New-to-world
  - Learn-by-doing

- **Skills 2025**
  - New skills, Skills gaps
  - Adjacent skills

- **Design of WL Org**
  - Org design, skills
  - Measurement

- **Ed-tech & Platforms**
  - Enablers
  - Disruptors
INTERACT WITH PEERS AT LEADING COMPANIES

Join leading businesses

- UBS
- IBM
- EnglishHelper
- Schneider Electric
- ferrovial
- P&G
- Boeing
- Analog Devices
- Mastercard
- 75 Aniversario CISS
- General Electric
Interested in joining us?

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