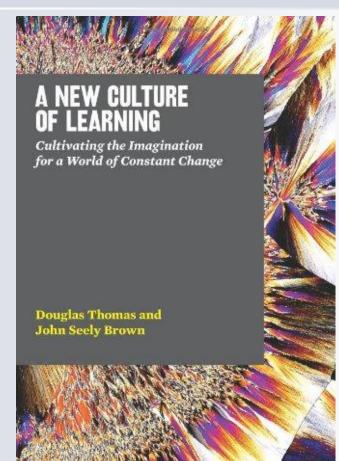


The 2020 challenges of Brazilian Higher Education

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Introduction

Academic Standard

Curricular Activities

Extracurricular activities

Conclusion



Introduction

Teacher centered

Student centered

Flexibility, mobility, specialization Citizenship development



Online learning will make college cheaper. It will also make it better

By L. Rafact Relf

EVERYONE WOULD LIKE & SHLLTON TH the problem of rising college crocs. While shortents wirry that they cannot alkerd a college education, D.S. colleges and universities know they cannot really afford to others them either. At a technology intensive research university like the Massachusette Institute of Technology, if now custs three times as much to edunate an undergraduate as we receive in not traition that is, the thiting MIT receives after providing for financial aid. To yush the research frontier and educate inconvators in science and engineering domandacostly instrumentation and unique facilities. Ever for institutions with substantial endowments, subsidizing a defielt driven by these and other ousis is, in the inng run, usisustaioable.

Some wonder whether today's colline cechnologies strecifically massive open online courses, or MOOX's, which can worth many thousands of students all a comparatively low cost-scould be an ensever Farmine unced that digital learning is the must important innuvation in education since the printing press. Yet if we want to know whether these lecturologies will make a college degree less expensive, we may be asking the wrong question. 1 helieve they will; we are assessing this possibility at MIT even now. But Jirs, we should use these tools to make higher efforation better in fact, to remove at 1: When the class of 2025 are ives on compuses, these technologies will have reshaped the entire concept of college IR ways we caprot vo redict. These transformations may that go the whole equation, from access to effectiveness in cast.

To understand the potential, it's important to focus on what digital learning, is good for At least at the moment, it's succh not very good ar implacing a close personal connection with an inspiring

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teacher and mentor. However, it is froom parably good at opening possibilities forbillions of haman beings who have little or no other access to higher learning. The glubal appetite for advanced learning, is enormous: MIT OpenCourseWare the mitiative we started in some to just virually all our course materials for free online-has attracted usa million learners worldwide. Today learners from every state in America and every nation. on earth are actually taking MIT online. classes; the cdX platform we launched wille Harvard 17 months ago has cotolled 1.25 million onique learners-io times the number of living MIT graduales. With our edX partner institutions, we see an immense opportunity to help people transform their lives.

Yetcigital learning also bilers surprising advantages even for students with access to the best educational revoluces. First, digital technologies are remarkably good at teaching content the basic concepts of circuits and electronics, the principles of chemistry, the evolution of architectural styles. At an online learning summit at MIT, one eminent professor of physics from a peer university explained that although he loves becturing and reorives top ratings in student reviews, he recently came to rethink his entire approuch Why? Recause testing indicated that many students did not svince away from his lectures ready to apply the concopis he aimed to teach. By contrast, comparable students taught this rel. online excretises-including immediate practices. feedback and reinforcement retained the concepts better and were better prepared to put them into practice. With somuch introductory material moving on line, instructors can take time that was previously reserved for locitories and use it to explait the power of banovative teach

ing techniques A son study co-authored by physics Nobel Jaureate Carl Wilepan at the University of British Coherobia showed the benefits, when tested on identical materials systems tangin through a highly interactive 'flipped classroom'' approach did nearly twice as well as press

saught via traditional lectures. Digital learning technologies offer a second advantage, which is harder to quantify but is deeply appealing to both students and facultys flexibility, just as college traditionally requires four years at the same academic address, traditional courses require large groups of students. to regularly gather at the same time and place. By making it possible to locak the requises antent into doverts of small conceptual modules of instruction and test mg, digital learning allows students to: engage the material anytime, any day, as after as they need to, anywhere in the world. A student can now spend a year immersed in semute field research on an unpurtant problem while staying in sync. A

TIME OLDORES, ROLE



Academic Standard

The rankings

Challenges of public universities

Internationalization

Creatives spaces



EPUSP Innovation Laboratory





EPUSP Innovation Laboratory



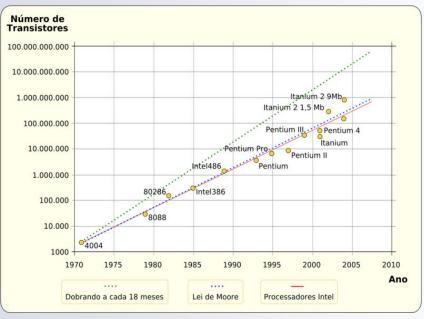


Curricular Activities The Brazilian Curriculum Digital learning



Curricular Activities

Moore's Law





How a 574-year-old school is preparing for a world without classrooms Leo Mirani





1900-50	1980-90	2000	Now &
			Future
Women	Mass	Global	MOOCs
Enrollment	Education	Education	Online
Research at	Private	Autonomy	Digital
Universities	Education Providers	Global Rankings	Learning Creativity

~50% of degree holders are holding jobs that do not require a degree (*)

(*)Mackinsey



Extracurricular activities

Two examples

Competences training

Social responsibility

Extracurricular internationalization



Conclusion

Challenges of universities

Global citizens



References

L. Rafael Reif – Online learning will make college cheaper. It will also make it better – Time, October 2013.

L. Mirani – <u>http://qz.com/167108/how-a-574-year-old-</u> school-is-preparing-for-a-world-without=classrooms/

Maringe, F.; Foskett, N (editors): Globalization and Internationalization in Higher Education: Theoretical Strategic na Management perspectives. Chapter 4. 2010.

Thomas, D.; Brown, J.S. – A New Culture of Learning: Cultivate the imagination for a world of constant change. ebook



Thank you

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