Creating Future-Resilient Curricula for Education '4.0' Students

Abstract for Concise Paper

Increasingly, learning design methodologies are being deployed to transform modes of learning for campus, blended, and fully online education to more appropriate pedagogies for the future. But still, the key concepts being taught, and the nature of assessment, frequently are based on tradition or hindsight, rather than the needs of graduates and employers of the future.

It is based on the notion that the next generation of higher education, the '4.0' students, will wish to be equipped to tackle the world's biggest challenges in additional to their personal careers, and need to be considering their preparation for the world of work.

This reflective and exploratory paper builds on a very recent research on jobs and skills of the future together with a 'resource-based' strategy for the distinctiveness and strengths of the institution. Future work needs can be built into desired graduate attributes making the strongest ever link between learning and employment. The key messages once developed can be used throughout the design and build of courses to ensure delivery is consistent and coherent, and contributing to students' satisfaction. Add great learning design and the institution's education become future-resilient.
Creating Education 4.0: hindsight, insight, foresight

From Salmon, 2019 ‘ May the Fourth be with you’
https://jl4d.org/index.php/ejl4d/article/view/352
<table>
<thead>
<tr>
<th>Employers</th>
<th>Universities</th>
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<tbody>
<tr>
<td>• New ways of working will be developed</td>
<td>• Identify new programmes, modes of education &amp; authentic assessments to prepare students for Industry &amp; Globalization 4.0</td>
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<td>• New knowledge, skills and capabilities will be identified</td>
<td>• Sustain graduates through worthwhile multiple careers during their long lives.</td>
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<td>• Current employees will be upskilled &amp; retrained.</td>
<td>• Focus on <em>human</em> capabilities</td>
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<td>• New talent will be attracted, retained and integrated</td>
<td>• Creativity, critical thinking, communication &amp; collaboration</td>
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<td>• all the while, the organization will need to keep operating and growing.</td>
<td>• Systems &amp; design thinking</td>
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<td></td>
<td>• Mirror symbiosis between technology and humans</td>
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</table>
Curriculum of the Future – Framework.

Tools for creating the curriculum of the Future.

data alchemy appeal
12 percent over the next 10 years, 18,700 new jobs (USA).

greater demand - in schools, hospitals, mental health centres, social services agencies.
1. Entering the world of symbiosis
2. True Lifelong learning
3. Contribution and Careers
Symbiosis- living together


LIFELONG LEARNING
AND THE FUTURE OF WORK
CHALLENGES AND OPPORTUNITIES

https://www.youtube.com/watch?v=vm4b-50YkmU
An ageing workforce isn't a burden. It's an opportunity

Londoner Sydney Prior, who worked at a home-improvement store until he was 96.

Future Work Skills 2020

While all six drivers are important in shaping the landscape in which each skill emerges, the color-coding and placement here indicate which drivers have particular relevance to the development of each of the skills.

KEY
- Drivers — disruptive shifts that will reshape the workforce landscape
- Key skill needed in the future workforce

1. **Extreme Longevity**
   - Increasing global lifespans change the nature of careers and learning
   - **Transdisciplinarity**

2. **Computational World**
   - Massive increase in sensors and processing power make the world a programmable system
   - **Design Mindset**
   - **Virtual Collaboration**
   - **Cross-Cultural Competency**
   - **Cognitive Load Management**
   - **Computational Thinking**

3. **Superstructured Organizations**
   - Social technologies drive new forms of production and value creation
   - **New Media Literacy**
   - **Novel and Adaptive Thinking**

4. **Rise of Smart Machines and Systems**
   - Workplace robotics nudge human workers out of routine, repetitive tasks
   - **Sense-Making**

5. **New Media Ecology**
   - New communication tools require new media literacies beyond text
   - **Social Intelligence**

6. **Globally-Connected World**
   - Increased global interconnectivity puts diversity and adaptability at the center of organizational operations
   - **Computational Thinking**

January 2019

G. Salmon. Learning Innovation CAEP Seminar.
Researching future curricula...
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Volume
Reputation
Foresight

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“Never doubt the power of a small group of people to change the world. Nothing else ever has”.
Margaret Mead

“Every society honours its live conformists and its dead troublemakers.”
Mignon McLaughlin

www.gillysalmon.com