Higher Education in a Society in Transition

Ivanka Popović

- Founded in 1808
- Comprehensive research-intensive university
- Committed to academic excellence

Scientific Excellence

Shanghai Rankings

UB is ranked 401-500 in 2019

UB is ranked in 25 of 54 Subject Rankings in 2019

UB is ranked 45th in Food Science & Technology in 2019

U21 UNIVERSITAS21

Overall Ranking Controlling for Level of Economic Development

U21
Ranking of National Higher Education Systems

Rank	Country	Score
1	Finland	20.2
2	United Kingdom	18.7
3	Serbia	17.4
4	Denmark	15.8
5	Sweden	14.4
6	Portugal	14.3
7	Switzerland	13.6
8	South Africa	13.4
9	Israel	12.7
10	New Zealand	12.4

Wilhelm von Humboldt (1767–1835)

There are undeniably certain kinds of knowledge that must be of a general nature and, more importantly, **a certain cultivation of the mind and character that nobody can afford to be without.** People obviously cannot be good craftworkers, merchants, soldiers or businessmen unless, regardless of their occupation, they are good, upstanding and – according to their condition – well-informed human beings and citizens. If this basis is laid through schooling, vocational skills are easily acquired later on, and a person is always free to move from one occupation to another, as so often happens in life.

Louis Pasteur (1822-1895)

There does not exist a category of science to which one can give the name applied science.

There are sciences and the applications of science, bound together as the fruit of the tree which bears it.

Aldous Huxley (1894 - 1962)

People will come to love their oppression, to adore the technologies that undo their capacities to think.

The reading brain in a digital world

Reading actually changes the wiring of the brain.

Reading (deeply or skimming) changes the brain's ability to comprehend, analyse, and evaluate information.

Research shows that reading helps with fluid intelligence, comprehension and emotional intelligence.

https://medium.com/personal-growth/your-brain-on-skim-reading-b0de828769
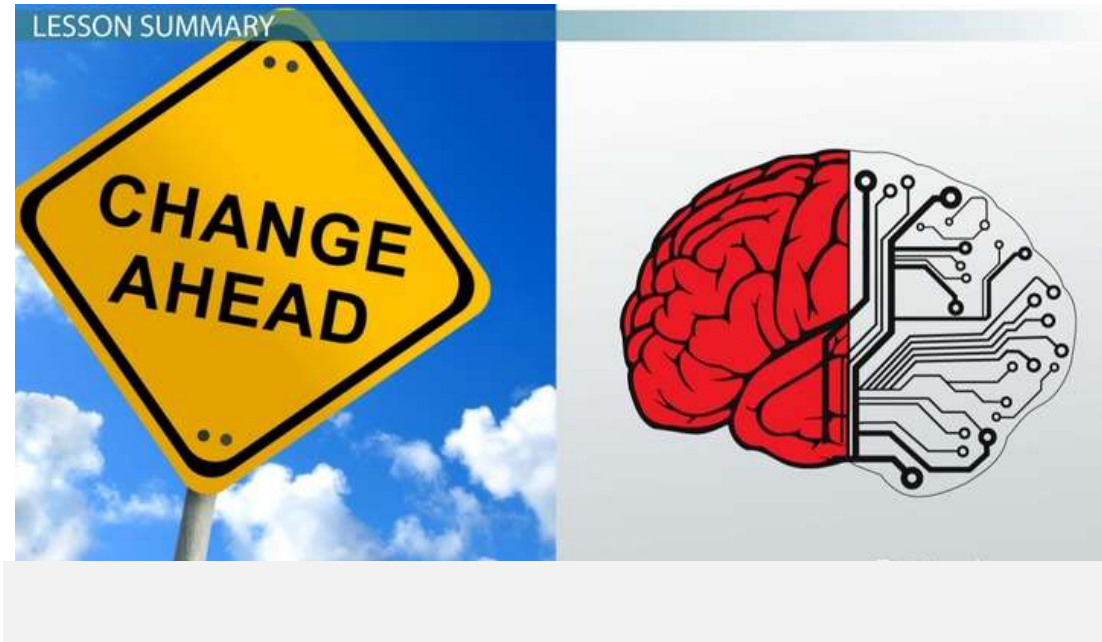
TRANSITION

noun

noun: transition; plural noun: transitions

the process or a period of changing from one state or condition to another

verb

verb: transition; 3rd person present: transitions; past tense: transitioned; past participle: transitioned; gerund or present participle: transitioning

undergo or cause to undergo a process or period of transition

Sustainable Development Goals

Interdisciplinarity and problem-based learning

Disappearing Careers 2020-2030

	Rank	Disappearing Career	% Probability of Automation	% Median Range
	1	Logistics, Warehousing and Driving	93-98%	95.50%
	2	Manufacturing Machinery Operators	93%-97%	95%
	3	Accountants, Credit Controllers and Auditors	86-98%	92%
	4	Admin & Clerical Roles and Credit Analysts	87-96%	91.50%
	5	General Construction Labourers	88%	88%

Resilient Careers 2020-2030

	Rank	Resilient Career	% Probability of Automation	% Median Range
	1	Care Workers	0.5%- 8%	3.75%
	2	Engineers, (Mechanical, Electronic, Civil, Chemical etc.)	1.5%-10%	4.25%
	3	Software Developers and Technology Coders	4%-13%	4.50%
	4	Surgeons, Doctors and Locums, Theatre Nurses, Medical Assistants, Dentists and Cosmetologists	0.5%-11%	5.50%
	5	Teachers, Lecturers Education *Professionals	1%-26%	12.50%

* - This does not include Teaching Assistants who are at a mid-level (56%) risk of automation

https://www.sellingsuccess.co.uk/top-5-disappearing-resilient-and-emerging-careers-2020-30/

Emerging Careers 2020-2030

- Robot Programmers

- AI Engineers

- Machine Learning Analyst

- Drone/Autonomous Vehicle fleet pilot

- Bot Controllers

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Biggest Skill Gaps

LinkedIn Economic Graph data 2014 - 2018

1. Oral Communication

Skills include: Public Speaking, Communication, Presentation Skills

2. People Management

Skills include: Teamwork, Supervisory Skills, Personnel Management

3. Development Tools

Skills include: Java, C++, Linux

4. Social Media

Skills include: Social Media, Digital Media, Social Media Measurement

5. Business Management

Skills include: Management, Strategic Planning, Business Process Improvement

Biggest Skill Gaps

LinkedIn Economic Graph data 2014 - 2018

6. Time Management

Skills include: Organization Skills, Time Management, Multitasking

7. Leadership

Skills include: Leadership, Team Leadership, Team Building

8. Graphic Design

Skills include: Adobe Photoshop, Web Design, Illustration

9. Data Science

Skills include: Data Analysis, Forecasting, Statistics

10. Web Development

Skills include: HTML, JavaScript, Cascading Style Sheets (CSS)

Expected Trends in Higher Education

- Further stratification of HE institutions
- Increased diversity in student population
- Increase in teaching methods diversity
- Incorporation of soft skills development in curricula
- Complementarity of formal, informala and non-formal education
- Opening up of HE institutions to societal needs

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