RUSSIAN SCIENCE TECHNOLOGY AND EDUCATION CONFERENCE (RUSTEC 2020)

Transformation of University teaching methods: crisis and new sustainable forms of education process

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Content

- What is the impact of crisis? COVID19 and University's life
- Case study of Korean University
- Flip-learning
- Problem/Project based learning
- What are the future expectations?

COVID19 and Education process

Before COVID19	During COVID19
Offline education	Online education
Face-to-face communication	Not physical communication
Mentorship	Tutorship
Environment and infrastructure	Technology based
Traditional forms of teaching	New forms of education
Incremental innovations	Radical innovation

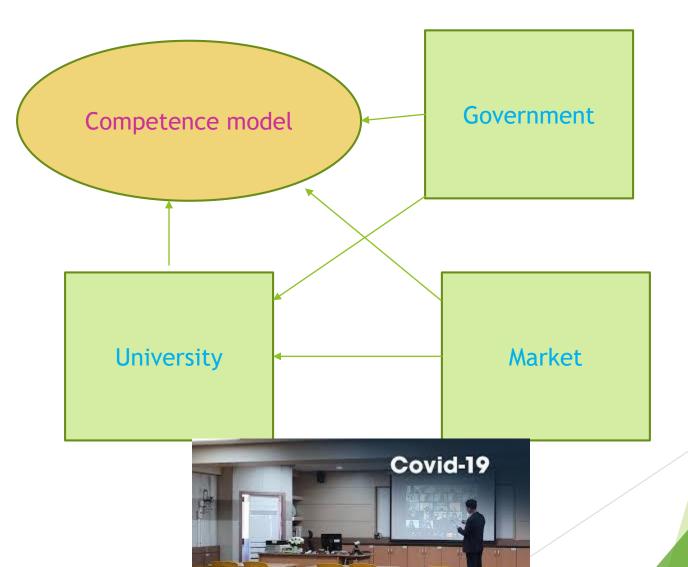
Main discussion nowadays:

- 1. What is the final impact of COVID19 period for the University education system?
- 2. Will be the education system the same after crisis?





High level Education system in South Korea



Case study of Korean Universities

- Example: Korea University of Technology and Education (KOREATECH)
- School of Industrial Management
- Korean students (all levels/grades)
- Period: 2020 (semester 1 + semester 2)

Story of education in 2020-1 semester

- Format: online+offline
- The start of semester was postponed
- Previous version of El University portal
- No changes in teaching methods except online approach



Story of education in 2020-2 semester

- Format: online
- The start of semester is in-time
- New version of El University portal Real-time lecture option has been added
- Main changes in teaching methods: acceleration of PBL, FL, discussions, SNS

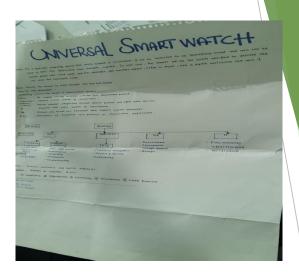


Management studies. Flip-learning: Pre-class activity

- Watching video records
- Home task (based on video content)
- Book chapter reading
- Survey

In-class activity

- Practice (Real-time activity in Zoom)
- Discussion
- Business games
- Case study





After-class activity

- ► Q&A
- SNS chat
- Problem statement



Advantages

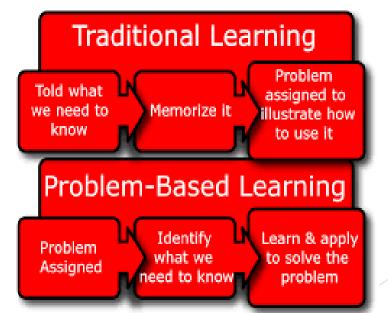
PROBLEMS

- More discussion
- More lecture and explanation
- More practice
- Effective group dynamics
- More easy during online period of education

- Students don't know about flip-learning - so they are afraid to apply to such course
- Students have low level of motivation to do home task (pre-class activity)
- Most of the students tell that it is not easy for them to listen English video lecture

Problem/Project based learning

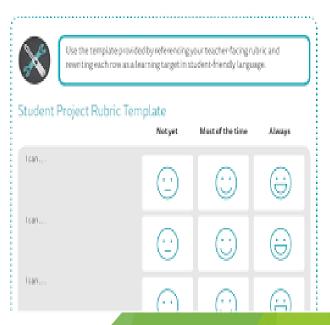
- Problem-based
- Cases study (3 steps for 3 weeks: problem recognition, discussion, solution presentation)
- Project-based
- Project (number of project steps depends on number of educational weeks)



Benefits of PBL in the era of COVID19

- Easy to manage such class online
- Acceptable for daily communication process between professor and student
- More interesting format for online classes
- Acceleration of innovative decisions and textbooks





Summary

- What we can learn from COVID19 educational period for our future?
- New technologies?
- New competencies?
- New professions?
- New strategies!



Thank you!

