Rethinking Pedagogy for 21st Century Skills Development

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Universities in Thailand

- Public University: 79 Universities
  (Autonomous University 16 Universities)
- Private University: 41 Universities

Thai Qualifications Framework for Higher Education (TQF: HEd)
Thai Qualifications Framework (TQF)

The expectation of TQF

- curriculum standard and learning outcome standard

Learning outcomes

1. Ethics and Morality
2. Knowledge
3. Cognitive Skill
4. Interpersonal skills and Responsibility
5. Communication, IT and Numerical Skills
5 Domains of Learning Outcomes

- Communication, IT and numerical skills
- Interpersonal skills and responsibility
- Ethics and Moral knowledge
- Cognitive skills
- Psychomotor skills
Higher Education in 21st Century: Change and Challenges

Universities

5 Domains of Learning Outcomes

Graduates

21st Century skills
21^{st} Century Skills:

**Way of Thinking:**
Creativity, Critical Thinking, Problem-solving, Decision-Making, Learning to learn

**Way of Working:**
Communication and Collaboration

**Tool of Working:**
ICT and Information Literacy

**Skills for Living in the World:**
Citizenship, Life and Career, Personal and Social Responsibility
Higher Education in 21st Century: Change and Challenges

Universities

21st Century skills

Graduates
Chiang Mai University

Policy in Instructor Development:
“Rethinking on Teaching and Learning Process”

21st Century skills
University Project (2013):
“Instructor development for re-form of teaching and learning process in 21st Century”

Committee:

- 2 Vice Presidents
- Deans
- Experts: Pedagogy and IT
Instructor Development Committee:
Instructor development for re-form of teaching and learning process

2 Brainstorming forums

• Dean Consortium
• Open Forum
Dean Consortium (Brainstorming)

The President

All faculties’ Deans

Change mindset and “Buy-in” the Understanding:

1) The 21st Century Education
2) The outputs of the study: 21st Century skills
3) The re-forming of the teaching and learning process

Rethinking Pedagogy for 21st Century Skills Development
Open Forum (Brainstorming)
Change Agents from Faculties

Brainstorming

1) Rethinking pedagogy for 21st Century skills development
2) Concepts of instructor development
3) New strategies of teaching and learning in 21st Century
Dean Consortium

Open Forums

21st Century Skills Development Strategies:

“Three steps for 21st Century Skills Development”
Three steps for 21st Century Skills Development

1. 21st Century Instructors Developing Approach
2. 21st Century Best Practice Approach
3. 21st Century Development Policy
Three steps for 21st Century Skills Development

Step 1: 21st Century Instructors Developing Approach

- How to Develop Critical Thinking in Your Students?
- Student-Centered Learning and Classroom Action Research
- How to Develop Creative Thinking in Your Students?
- How to Foster Communication and Collaboration in your Classroom?
Three steps for 21st Century Skills Development

Step 2

21st Century Best Practice Approach

Best Practice Approach

Practice by Instructor:
- Pilot Project A and B type
- Budget supported by CMU
- Training courses on demand
Pilot Project

Type A Pilot Project

Type B Pilot Project
Student-Centered Learning Approaches

- Decrease lecturing period: 50%
- Activity-based learning:
  - Project-based learning
  - Problem-based learning
  - Brain-based learning and Inquiry-based learning

ICT Tools: CMU Online, Clickers (IWB), Streaming Media, E-Learning Courseware, E-books

Budget: 1,000 $US
Type B Pilot Project

Student-Centered Learning and ICT-integrated Learning Approaches

Similar to pilot project type A / ICT will be exactly underlined and integrated

• **Decrease lecturing period: 50%**
• **Activity-based learning:**
  - Project-based learning
  - Problem-based learning
  - Brain-based learning and Inquiry-based learning

ICT Tools: CMU Online, Clickers (IWB), Streaming Media, E-Learning Courseware, E-books, etc

**Flipped Classroom Approach**

**Digital Literacy: Training**

**Budget: 2,000 $US**
Three steps for 21st Century Skills Development

Step 3

21st Century Development Policy

- CMU 21st Century Education Day
- The Best Practice Award
- Instructor Promotion Policy
- ICT Facilities / Training Courses

Policy Approach
Three steps for 21st Century Skills Development

1. 21st Century Instructors Developing Approach
2. 21st Century Best Practice Approach
3. 21st Century Development Policy

Re-form of teaching and learning process
Three steps for 21\textsuperscript{st} Century Skills Development

Step 2: 21\textsuperscript{st} Century Best Practice Approach

Call for Proposal: instructors in all university faculties

- 30 projects were approved
- 27 projects are Type A / 3 projects are Type B
- 11 projects: Health Sciences
- 14 projects: Sciences and Technology
- 5 projects: Humanities and Social Sciences

The Assessment for the 21\textsuperscript{st} Century Learning best practice Approach
Chiang Mai University

Graduates

21st Century skills