Implementation of e-learning activities at ITC

LAY Heng
Director of e-Learning Center

BOU Channa
eLearning staff

Institute of Technology of Cambodia (ITC)
Department of Information and Communication Engineering

December 2021
Introduction to e-Learning Center of ITC

➔ ASEAN Cyber University (ACU) project was proposed by South Korea-ASEAN Summit 2009.
➔ At the first stage, the project is designed to help the CLMV (Cambodia, Laos, Myanmar and Vietnam)

➔ ITC was mandated by the Ministry of Education, Youth and Sport (MoEYS) of Cambodia to implement the ACU Project
➔ In 2011, ITC was selected by the selection committee from Korea for setting up ASEAN Cyber University (ACU)
➔ In June 2012, ITC's e-Learning Center was established
   - Multimedia studio room
   - Content development room
   - Operation room
Our story (stage 1)

*We start from scratch*

<table>
<thead>
<tr>
<th>2012 - Start Stage 1</th>
<th>2014 - Expand to other departments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pilot the e-learning model</td>
<td>8 Courses for 3 Departments,</td>
</tr>
<tr>
<td>2 Courses for 1 Department,</td>
<td>20 Skill Persons</td>
</tr>
<tr>
<td>7 Skill Persons</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2013 - Growth</th>
<th>2015 - Expand to whole ITC</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Courses for 2 Departments,</td>
<td>13 Courses for 8 Departments</td>
</tr>
<tr>
<td>14 Skill Persons</td>
<td>40+ Skill Persons (including NIPTICT)</td>
</tr>
</tbody>
</table>
## Our story (stage 2)

### Moving forward

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
</table>
| 2016 | Start Stage 2  
18 Courses  
Expand to 2 public universities,  
ITC-OER Starts |
| 2017 | Expand to more universities  
Increase to 23 courses,  
Expand to 3 public universities  
ITC-OER Policy to MoEYS |
| 2018 | Expand to more partners  
ITC: 27 Courses (3 partners)  
UNESCO: 11 Courses  
CIRAD & RUA: 9 Courses  
PIC: 2 Courses  
HUB Center of Course Operation  
Expand to UBB and MCU |
| 2019 | Sustainability  
Continue development WB  
Digital Education Center  
STEM Teacher Training Center  
UNESCO-BEEP Phase II |
Our story

Content operations (2012-2021)

- Learners: 3188 (60.56% of ITC students)
- Not including partners contents
- Courses operation: 28
- Instructors: 27
HOW WE OPERATE E-LEARNING?
How do we operate e-learning at ITC?

How Do We Operate e-learning at ITC?

E-Learning Course Session
- E-learning completion = attendance + score
- Flipped classroom method
  - Theory in e-learning Course
  - Learning activities and toolkits
- Some computer lab is reserved for e-learning
  ➡ You can learn anywhere by yourself
  (*** Practice Session stays the same.)

Final exam
- E-Learning course lesson + TP lesson
  ➡ Offline final exam with the school
HOW WE SUPPORT STUDENTS?
Our human resources involved in e-learning operation

Our team are waiting to help.

1. Instructor
   - Wrap Up session (summary + Q&A)
   - Learning activities **every 2 or 3 week**
   - Assignment online

2. Teacher Assistant
   - Guide you about e-learning
   - Answer your questions
   - Consult your problems

3. LMS Administrator and technical support
   - Explain the usage of LMS system
   - Solve problems
   (Mon-Fri 7am – 5pm) **B220**
## Support policy of e-learning model at ITC

A *policy set is a key success for driving e-Learning model in HE*

<table>
<thead>
<tr>
<th>School Support Policy</th>
<th>Support flipped and blended learning, Encourage online course operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Policy from Department</td>
<td>All departments are encouraged their lecturers / professors to develop online courses</td>
</tr>
<tr>
<td>Support policy from eLearning Center, ITC</td>
<td>Support development and technical skills Incentive for course development and operation</td>
</tr>
</tbody>
</table>
Development partners

Partners are welcome
Learning Management System (LMS)
Based on Moodle
moodle.itc.edu.kh
Sample contents of ITC

3 types of eLearning contents:
- SCORM content
- HTML5 content
- Video content
Host Agroecological contents from RUA partner

- Cover Crop
- Building A Healthy Soil
- Conservation Agriculture And D...

- Agrarian Transition And Opport...
- Agrarian System Analysis And D...
- Land Use And Land Cover Chan...

- Soil Aggregates
- Soil Organic Matter
- A Versatile Machine
Local capacity building training

Content development

Basic Training on Content Development
2015 - 2019

September 9th - 10th, 2019

<table>
<thead>
<tr>
<th>Trainees</th>
<th>26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutions (including DIT/MoEYS)</td>
<td>14</td>
</tr>
</tbody>
</table>
e-Learning workshop and working group meeting (2015 - 2018)

Promote e-learning in Higher Education in Cambodia

November 16th, 2018

30 Participants 20 Organization

Objective

• To share experiences of keys organizations involved in the operation and development of e-learning
• To figure out the challenge and possible solutions to the co-operation and operation of e-learning

Challenges

• Infrastructure
• Human habit (instructor and student)

Implementation of UNESCO Basic Education Equivalency Programme (BEEP)

• Develop online contents (11) for BEEP
• Operate BEEP contents
• Operate of Learning Center for out of school youth in BEEP
• Support training to other Learning Center (13)
• Transfer content operation to DIT/MoEYS in the future

Launching of first BEEP’s Learning Center at ITC, February 17th, 2019
BEEP operation

- **2000+** Online registration (including not targeted)
- **344** Official registration at LC (13) (pilot)
Support to MoEYS during COVID-19 pandemic

• Secondary school content development for grade 12

• Consultancy on e-learning development
The way forward

➔ World Bank, 2019 - 2023
   ◆ Convert all ITC courses to online content
   ◆ Improve T&L approach, and improve R&D
   ◆ Support other Higher Education Institute to develop and apply e-learning

➔ STEM Teacher Training Center, 2020 - 2022
   ◆ Work with EMCAST to develop STEM Teacher Training online learning material
   ◆ Work with WBF to operate STEM Teacher Training Center
   ◆ To be STEM Teacher Training in the future

➔ Collaboration with RUA and CIRAD to develop agriculture content: host regional content on agriculture
Contact Us

Website: elearning.itc.edu.kh
Facebook: ITC e-Learning Center
layheng.itc@gmail.com
+855 99 631 618
Director of eLearning center, ITC

Russian Federation Blvd. P.O.86, Toul Kok, Phnom Penh, Cambodia.

Website: elearning.itc.edu.kh
Facebook: ITC e-Learning Center
bouchanna.itc@gmail.com
Staff at eLearning center, ITC

Institute of Technology of Cambodia
Department of Information and Communication Engineering