# Developing the OBIL Curriculum with Blended Learning in the Module of RC (Research in Childhood)

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#### **Project Objectives:**

- A. Improving the quality of teaching and learning best practice is to assess the teaching and learning outcomes in a valid and reliable way using different assessment methods, including on-line exercises, group presentation, discussion forum, and multi-evaluation (i.e., self, peer, and teacher-evaluation).
- B. Promoting students' self-regulated behavior Different assessment methods involve students in the higher order cognitive ability to reflect on past experiences, present external demands, make personal choices based on management of time, goal, and priority setting, and then handle the resulting consequences.

- C. Demonstrating an example of OBTL curriculum to ECE colleagues the project will demonstrate an example to ECE colleagues the difficulties or limitations when designing and executing an OBTL curriculum to our ECE students. This also provides an exemplary case of using different forms of assessments to examine and improve teaching practice.
- D. Improving the content and form of assessments of the modules different assessment templates will be developed for online exercises, self-evaluation, peer-evaluation, and teacher-evaluation. The assessment templates will be presented in three-level form, such as Knowledge level, Skills level, and Attitude level. The newly developed assessment templates for different assessments are better than the single traditional assessment (e.g., individual assignment) in assessing students' learning outcomes.

■ E. Utilizing blended learning in the enhancement of teaching and learning in 2 modules - to improve student learning and thereby increase flexibility in how, when and where students study. The project will also apply technology in peer and self-assessment methodologies, thereby enabling additional enrichment of self-directed learning approaches.

#### OBTL module outlines

Institute Intended Learning Outcomes (IILOs)

	Institute Inteneded Learning Outcomes (IILOs)
I	Character & moral responsibility
II	Competence & professional excellence
III	Cultivation of wisdom and intellectual engagement
IV	Civic-mindedness and social responsibility

## Programme Intended Learning Outcome (PILOs)

	Programme Intended Learning Outcomes (PILOs)
A	Able to become highly competent, innovative and ethical professionals who are able to contribute to the development of young children and their
	families
В	Able to challenge and extend their understanding of early childhood education in general, and their own practice in particular.
C	Able to reflect and build on their practical experience in a stimulating teaching and learning environment.

## Course Intended Learning Outcomes (CILOs)

No.	Learning Outcomes (LOs)
	Knowledge
1	Able to design a research project, like action research
2	Able to write up reports based on both quantitative and qualitative data
3	Able to interpret findings on statistical results, scripts, records, audio
	and/or video-recordings
4	Able to employ interpretative approaches and collaborative social research
	approaches to qualitative data analysis.
	Skill
5	Able to apply interviewing skills in different types of interviews
6	Able to analyse both quantitative and qualitative data
7	Able to use software for quantitative data analysis, such as SPSS and Excel
	Attitude
8	Able to respect research ethics
9	Able to protect subjects from social risk, physical risk, and psychological
	risk in research

## Matrix of Learning Outcomes of RC (Research in Childhood)

	IILOs (Institute Learning Ootcomes)				
PILOs					
(Programme	I		III	<b>IV</b>	
Intened					
Learning					
Outcomes)					
A	8 & 9	1, 2, 3, 4, 5, 6, & 7	1, 4, & 9	8 & 9	
В	8 & 9	1, 2, 3, 4, 5, 6, & 7	2 & 6	3, 4, &7	
C Education University	8 & 9	2, 3, 6, & 7	1, 3, & 6	1, 2, 5, & 6	

## Course Learning Outcomes and Weighting

Content	MLO No.	Teaching (in hours)
Ethical issues in educational research	8 and 9	3
Designing research in early childhood education settings	1	3
Qualitative research methods (1): Dramaturgy and focus group interview	5 and 6	3
Qualitative research methods (2): Action research and case study	4 and 6	6
Qualitative research methods (3): Observation and survey methods	4 and 6	3
Experimental research methods: True experiments and Quasi-experiments	1, 2, and 3	6
Using software for quantitative data	3, 4, and 7	3
Reporting and evaluating educational research	2 and 3	3

#### Assessments

No.	Assessment Methods	Weighting	Remarks
1	Continuous	30%	Students should complete
	assessment		a.2 online exercises.
			(1st time: Class A: 21/1, Class B: 18/1, Class C: 20/1)
			(2 <sup>nd</sup> time: Class A: 4/2, Class B: 1/2, Class C: 3/2),
			b. One in-class quiz
			(Class A: 11/4, Class B: 8/4, Class C: 10/4)
			Each weighs 10% (30%)
2	Group	30%	Presentation* (25 to 30 minutes): Give a presentation
	small-scale	1 - 52 52 - 53 - 53	on a selected paper (30%) including
	research		a.Rationale of the study
. •	project		b.Literature review
			c.Methodology
			d.Results & discussion
3	Individual	40%	The write-up of a research proposal aims to assess
	Research		the extent to which students has achieved the
T . T .	proposal		learning outcomes of the course.
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### Seven Generic Skills

Exprehenismiving  Humile problems  Gentreamerum allun  Avidivze problems  Evaluates obtions	Thinking  Beable to judge situations/feetsions Bessel recleative	3. Creative and final variety  1. Thinking  2. Challenge new and old idens  2. Percite insk-inking  Apply creative insk-inking  3. Apply creative insk-inking and  3. Single instruction in a single	4 Futical tenders and income Desiron Malane  Desiron Malane  Demonstrate of knowledge and respector of his and edited  Freshesto value and promote multaliones by and edited  stabilized  Gan exercise and edited  responsibility and restriction emitle responsibility and restriction emitle responsibility for the common good  Fresh people well
Effective Communication     Articulate and express one's self     Can express knowledge, ideas and opinions in their professional field, both orally and in written form, with confidence, fluency and clarity     Be able to engage effectively and appropriately with information and communication technologies.  Be able to actively listen and respond to the ideas of other people.	6 Social Interaction  - Build positive relationships with others  Be able to interact effectively with others in order to work toward a common outcome  - Show capacity for tolerance and mutual respect of others, resolving conflict and the negotiation of outcomes  - Demonstrate general human understanding including empathy; sensitivity and cooperation	Global and Multi-cultural Perspective  Show an understanding of social and civic responsibility Show tolerance for and appreciation of cultural and intellectual diversity Can function effectively and constructively in a global environment and in a variety of complex situations  Be able to appreciate diversity of communication styles employed by individuals from different national and cultural backgrounds	

## Mapping

				Conte	nt areas			14
	Ethical issues in edu research	Designing research in early childhood edu settings	Dramaturgy and focus group interview	Action research and case study	Observation and survey methods	Experimental research methods: True exp & Quasi- exp	Using software for quanti data	Reporting & evaluating edu research
Continuous assessment								
Group small-scale research project								
Research proposal								



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## Evaluation of OBTL format in the module of RC

#### Questions to be investigated

- The relationship between:
- Q1. No. of times students attempted in online exercise and no. of learning outcomes achieved in the learning outcomes checklist
- Q2. No. of times students attempted in online exercise and the quiz score
- Q3. No. of learning outcomes achieved in the learning outcomes checklist and the quiz score

## Q1. No. of times students attempted in online exercises and no. of learning outcomes achieved in the learning outcomes checklist

	•	Correl	ations		
			No. of learning outcomes achieved in the learning outcomes checklist one	Attempted times in online exercise two	No. of learning outcomes achieved in the learning outcomes checklist two
No. of Attempted times in online exercise one	Pearson Correlation	1	.05	.14	16
No. of learning outcomes achieved in the learning outcomes checklist one	Pearson Correlation	.05	1	08	.44**
No. of Attempted times in online exercise two	Pearson Correlation	.14	08	1	28*
No. of learning outcomes achieved in the learning outcomes checklist two	Pearson Correlation	16	.44**	28*	1

<sup>\*.</sup> Correlation is significant at the 0.05 level (2-tailed).

## Q1. No. of times students attempted in online exercises and no. of learning outcomes achieved in the learning outcomes checklist

- Significant Positive correlation, r = .44, N = 63, p < .01
  - No. of learning outcomes achieved in the learning outcomes checklist one
  - No. of learning outcomes achieved in the learning outcomes checklist two
- Significant negative correlation, r = -.28, N = 78, p < .05
  - No. of learning outcomes achieved in the learning outcomes checklist two
  - Attempted times in online exercise two

<sup>\*\*.</sup> Correlation is significant at the 0.01 level (2-tailed).

## Q2. No. of times students attempted in online exercise and the quiz score

	Corre	Attempted times in online	Attempted times in online e exercise two	Quiz score
No. of Attempted times in online exercise one	Pearson Correlation	exercise on	.14	14
No. of Attempted times in online exercise two	Pearson Correlation	14		a30**
Quiz score	Pearson Correlation	14	30 <sup>**</sup>	1

<sup>\*.</sup> Correlation is significant at the 0.05 level (2-tailed).

## Q2. No. of times students attempted in online exercise and the quiz score

- Significant negative correlation, r = -.30, n = 83, p < .01.
  - Online exercise two attempted times
  - Quiz scores
- More attempted times in online exercise two→ lower quiz scores

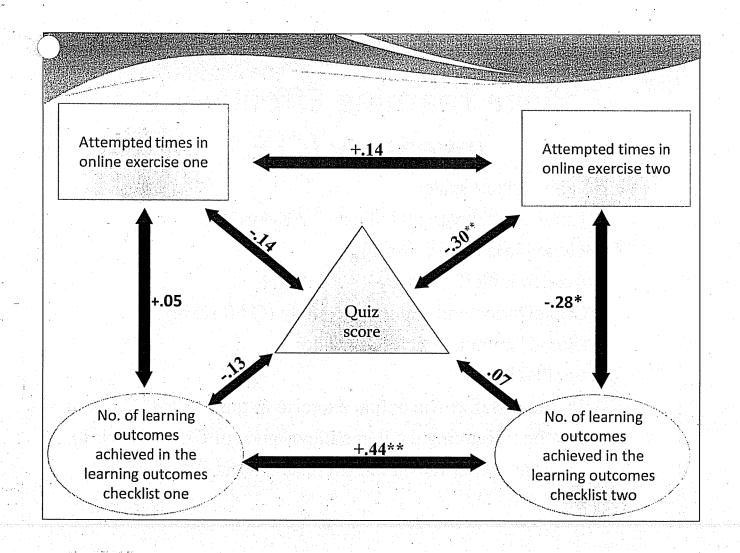
<sup>\*\*.</sup> Correlation is significant at the 0.01 level (2-tailed).

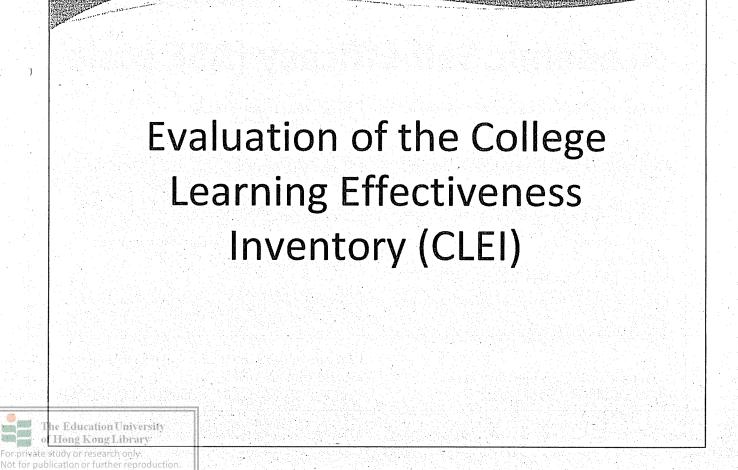
## Q3. no. of learning outcomes achieved in the learning outcomes checklist and the quiz score

	•	Correlations		
		Number of yes in learning outcome checklist (exercise one)	Number of yes in learning outcome checklist (exercise two)	Quiz score
Number of answering yes in learning outcome checklist (online exercise one)		1	.44**	13
Number of yes answering in learning outcome checklist (online exercise two)		.44**	1	.07
Quiz score	Pearson Correlation	13	.07	1
*. Correlation is significant at the **. Correlation is significant at the				

## Q3. no. of learning outcomes achieved in the learning outcomes checklist and the quiz score

- Significant Positive correlation, r = .44, N = 63, p < .01
  - 1 No. of learning outcomes achieved in the learning outcomes checklist one
  - No. of learning outcomes achieved in the learning outcomes checklist two
- Understand more in learning outcome checklist one →
   Understand more in learning outcome checklist two





#### College Learning Effectiveness Inventory (CLEI)

- Five point Likert scale
  - 1 indicate "Never"; 5 indicate "Always"
- Developed into three sub-scales
  - Academic Self-Efficacy (ASE scale)
  - Organization and attention to study (OAS scale)
  - Class Communication (CC scale)
- Data collection
  - 1st time: Before the online exercise & quiz (Week 1)
    - 2<sup>nd</sup> time: Ranking the items importance of CLEI (Week 8)
    - 3<sup>rd</sup> time: After the online exercise & quiz (Week 10)

#### Academic Self-Efficacy (ASE scale)

I do not turn in assignments. I am aware of the assignments that are due in the next week. 我會不交作業或缺交作業。

我會留心未來一週要交的作業。

I believe that I have the ability to complete the I believe it is possible for me to make good grades module 我相信我有表現出良好成績的潛能

我相信我有能力完成這科目

I have goals that I want to achieve by studying in this module.

我具有想要透過這科目來達成的目標。

I doubt that I can make the effort to finish the

我懷疑自己能否全力以赴地完成這科目

Gaining knowledge is important to me. 我會把知識的獲得看得很重要

I turn in assignments only partially completed. 我會交出不完整的作業。

I have high academic expectation of myself. 我對自己的學業有高度的期待

I am determined to do what it will take in order to succeed with my goals. 我會成了成功達成我的目標而堅定地採取必要的

## Organization and attention to study (OAS scale)

I organize my time so that I have plenty time to study.

我會安排時間讓自己有充裕的時 間可以讀書。

I-make study goals and keep up with them.

我會設定讀書目標,並且迎頭去 追求這些目標。

I find myself daydreaming when I study.

我發現自己會在念書時做白日

I find my attention wandering in class.

我發現在課堂上我的注意力會恍惚 或跑掉。

I break big assignment into manageable pieces.

我會把龐大的作業劃分成容易辦好 的小單元去做。

I cannot get into studying even if there is nothing else to do.

即使沒有其他事情可做,我也無法專注於課業當中。

#### Class Communication (CC Scale)

I avoid speaking in class. 我在課堂上會逃避發言。 I ask questions in class. 我會在課堂上發問。

I dread the thought of getting test results in certain classes.
我害怕去想到某些科目的考試結果。

I cannot seem to express my ideas on paper very well. 我似乎無法在書面報告上十分良好地表達出自己的想法。

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#### Questions to be investigated

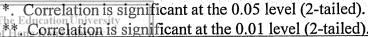
Q1. The difference of Academic Self-efficacy, Organization and attention of study, and class communication among three classes

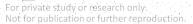
Q2. The difference of Academic Self-efficacy, Organization and attention of study, and class communication in the beginning and the end of the module

O1. The difference of Academic Self-efficacy, Organization and attention of study, and class communication among three classes

ANOVA

	22110 12		
		Mean	<b>F</b>
	Class A	3.38	
ASE scale after	Class B	3.24	
	Class C	3.22	
	Class A	2.57	
OAS scale after	Class B	2.79	1.84
	Class C	2.76	
	Class A	2.99	
CC scale after	Class B	3.10	1.86
보다 100 시간 100 HE 12 HE 12 19 HE 19 HE 12	Class C	2.84	
	Class A	3.05	
Total score after	Class B	3.08	.25
	Class C	3.01	





## Class difference for 3 scales (ASE scale, OAS scale& CC scale)

ANCOVA for ASE scale			ANCOVA for OAS scale			
Source	F	Partial Eta Squared	Source	F	Partial Eta Squared	
Classes	1.19	.03	Classes	1.44	.04	

ANCOVA for CC scale				
Source	F	Partial Eta Squared		
Classes	1.87	.05		

Correlation is significant at the 0.05 level (2-tailed).

- There is no significant difference among three classes for ASE scale, OAS scale & CC scale
- Teaching style didn't affect the score on ASE scale, OAS scale & CC scale significantly

Q2. The difference of Academic Self-efficacy, Organization and attention of study, and class communication in the beginning and the end of the module

#### Paired sample t-test

	Mean	t-value
ASE scale before	2.92	F 22**
ASE scale after	3.28	-5.22**
OAS scale before	3.03	**************************************
OAS scale after	2.68	4.32**
CC scale before	3.01	.49
CC scale after	2.98	
Total score before	2.97	86
Total score after	3.03	

\*. Correlation is significant at the 0.05 level (2-tailed).

Correlation is significant at the 0.01 level (2-tailed).

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<sup>\*\*.</sup> Correlation is significant at the 0.01 level (2-tailed).

#### Interpretation

- Academic Self-Efficacy
  - Post-test scores higher than Pre-test scores (.036 greater)
  - The academic self-Efficacy was **increase** after online exercises & quiz
- Organization and attention to study
  - Post-test scores lower than Pre-test scores (0.35 lower)
  - Student organization and attention to study **decrease** after online exercise & quiz

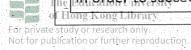
#### Interpretation

- Organization and attention decrease
  - The end of the semester
    - Placement, project
  - Attention is situational
    - · E.g. affected by emotion
    - Not as consistency as self-efficacy
  - Surface learning & Deep learning

# Evaluation of the College Learning Effectiveness Inventory (CLEI) by using q-sort method

#### Academic Self-Efficacy (ASE scale)

A1 I do not turn in assignments.	A1 留心未來一週要交的作業。
A2 I do not turn in assignments.	A2 不交作業或缺交作業。
A3 I believe that I have the ability to complete the module.	A3 有能力完成這科目。
A4 I believe it is possible for me to make good grades.	A4 表現出良好成績的潛能。
A5 I have goals that I want to achieve by studying in this module.	A5 期望透過這科目的學習來達成學習目標。
A6 I turn in assignments only partially completed.	A6 交出不完整的作業。
A7 I doubt that I can make the effort to finish the module.	A7 懷疑自己能否全力以赴地完成這科 目。
A8 I have high academic expectation of myself.	A8 對自己的學業有高度的期望。
A9 Gaining knowledge is important to me.	A9 把知識的獲得看得很重要。
A10 I am determined to do what it will take in order to succeed with my goals.	A10 達成目標而堅定地採取必要的行動。



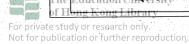
## Items ranking in ASE scale

Part A questions				
Questions (The most frequent ranking)		Second frequent ranking	Third frequent ranking	
A1	6 (24)	0,4,5 (6)	1,3(3)	
A2	1 (22)	0(20)	2(5)	
A3	0(25)	5 (10)	3,4(4)	
A4	0(32)	4(6)	3(4)	
A5	0(16)	5(10)	4(9)	
A6 .	0(28)	1(10)	2(8)	
A7	3 (13)	0(11)	2(6)	
A8 0, <b>4 (10)</b>		2(9)	3(9)	
A9	0(13)	3(8)	4,6(7)	
A10 0(23)		4(8)	5(7)	

## Items ranking in ASE scale

Ranki	I do not turn in assignments.
Rank 2	A2 不交作業或缺交作業。 Lturn in assignments only partially completed?
	A6交出不完整的作業。
Ranks	I doubt that I can make the effort to finish the module.  A7 傻疑自己能否全为以赴地完成這科目。
Rank4	I have high academic expectation of myself。 AS對自己的學業有制度的期望。
Rank 5	Thelieve that Thave the ability to complete the module A8 有能力完成這處圖。 I have goals that I want to achieve by studying in this module. A5 期壁透過這科語的學習來養成學習目標。
Rank 6	Tamesware of the assignments thet are due in the next weeks 是一个人们的主义的作業。

Most frequent Rankings	1	2	3	4	5	6	
Education UQuestions	A2	A6	A7	A8	A3 & A5	<b>A1</b>	



## Organization and attention to study (OAS scale)

B1 I organize my time so that I	B1 安排時間讓自己有充裕的時
have plenty time to study.	間可以讀書。
B2 I find my attention wandering	B2 在課堂上的注意力會跑掉。
in class.	
B3 I make study goals and keep up	B3 設定讀書目標,並且迎頭去
with them.	追求這些目標。
B4 I break big assignment into	B4 把龐大的作業劃分成容易辦
manageable pieces.	好的小單元去做。
B5 I find myself daydreaming	B5 自己會在念書時做白日夢。
when I study.	
B6 I cannot get into studying even	B6 做課業時,即使沒有其他事
if there is nothing else to do.	情可做,也無法專注於課業當
	中•

## Items ranking in OAS scale

	Part B questions				
Questions	Mode (The most frequent ranking)	Second frequent ranking			
B1	1(13)	3(10)			
B2	0(12)	3,4(10)			
B3	0(25)	2(9)			
B4	0(18)	4(11)			
B5	1(14)	0(11)			
he Education Uni B6ty	0(17)	3(10)			

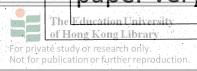
#### Items ranking in OAS scale

Rank1	B5 I find myself daydreaming when I study. B5 我發現自己會在念書時做自目夢。
Rank 2	B3 L make study goals and keep up with them. B3 我會設定讀書目標,並且迎頭去追求這些目標。
Rank 3	B2.I find my attention wandering in class: B2我發現在課堂上我的注意方會恍惚或跑掉。 B1. Forganize my time so that I have plenty time to study: B1:我會安排時間課目已有充裕的時間可以讀書。
Remk4	B4 I break big assignment into manageable pieces. B4 我會把龐大的作業劃分成容易辦好的小單元去做電

Most frequent Rankings	1	2	3	4
Questions	B5	В3	B2 & B1	B4

## Class Communication (CC Scale)

C1 I avoid speaking in class.	C1 在課堂上會逃避發 言。
C2 I ask questions in class.	C2 會在課堂上發問。
C3 I dread the thought of getting test results in certain classes.	C3 想到某一些科目學 習的考試結果,感到很 擔心。
C4 I cannot seem to express my ideas on paper very well.	C4 未能在書面報告上 清晰表達自己的想法。



### Items ranking in CC scale

Part C questions				
Questions	Mode (The most frequent ranking)	Second frequent ranking		
C1	1(18)	2(13)		
C2	0 & 1 (14)	2(13)		
C3	2(20)	3(17)		
C4	0	3(12)		

## Items ranking in CC scale

Rankl	C1 I avoid speaking in class. C1 我在課堂上會逃避發言。
Rank 2	C3 I dread the thought of getting test-results in certain classes. C3 我書怕去想到某些科目的考試結果。
Ranile3	C4 Learnest seem to express my tdeas on paper very well C4 我似乎無法在書面報告上十分良好地表達問自己的想法。

Most frequent Rankings	1	2	3
Questions	<b>C1</b>	C3	C4

## Thanks for your participation