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Student Motivation towards the Flipped Classroom Questionnaire

แบบสอบถามเรื่องแรงจูงใจของนักศึกษาในการเรียนแบบ Flipped Classroom

ตอนที่ 1 ข้อมูลทั่วไป Part 1 General Information

1	Gender () Male () Female
2	International College Studying in() Global Business Management () Other
3	Year() 1 () 2 () 3 () 4
4	Communicative Devices Usedอุปกรณ์สื่อสารที่ใช้ () Mobile phone() Tablet() Others.....
5	Operation system โปรแกรมปฏิบัติการที่ใช้ () ios () Androi () Window () Others.....
6	Ways to communicate with your lecturer.... วิธีติดต่อสื่อสารกับอาจารย์ผู้สอน () Phone no. () Line () Facebook account () Facebook Group () email address () Others.....
7	How long do you spend time using internet or mobile phone? ใช้อินเทอร์เน็ตเวลานานเท่าไรต่อวัน () 0-1 hour () 2-3 hours () 4-5 hours() 5-6 hours () 7 hours or more
8	How long do you spend time using internet for studying? ใช้อินเทอร์เน็ตเพื่อการเรียนรู้เวลานานเท่าไรต่อวัน () 0-1 hour () 2-3 hours () 4-5 hours() 5-6 hours () 7 hours or more
9	What kind of materials used by your lecturer? (You may give more than 1 answer). สื่อการเรียนการสอนที่อาจารย์ผู้สอนใช้คือ () CD / DVD () Computer () Overhead () Projector () Sources from internet () Others.....
10	Please indicate websites or programs used by your lecturer กรุณาระบุโปรแกรม เว็บไซต์ หรือสื่อที่อาจารย์ใช้ () Facebook () Youtube () Line () Other social media () Application..... () Programs..... () Websites..... () Others
10	I () haveฉันมี () do not have personal computer. ฉันไม่มีคอมพิวเตอร์ส่วนตัวที่บ้าน
11	I () have ฉันมี () do not have high-speed internet. ฉันไม่มีอินเทอร์เน็ตความเร็วสูง
12	Teaching method used in teaching business content. วิธีการสอนที่อาจารย์ผู้สอนใช้ () Book () worksheets () Discuss

	() Online learning such as facebook group
	() Posting VDOs
	() Others.....

ตอนที่ 2 แบบสอบถาม Part 2 Questionnaire

คำชี้แจงของผู้ตอบแบบสอบถาม : ให้นักศึกษาประเมินสภาพและวิธีการใช้วิธีการแบบ Flipped classroom ในการจัดการเรียนการสอนวิชาความรู้ด้านธุรกิจโดยทำเครื่องหมาย ✓ ในช่องระดับค่าคะแนนตามความสามารถจริง

Direction: Please evaluate the condition the use of Flipped classroom methodology in the management of business education by marking ✓ in the rating scale based on actual ability.

Items	Topics	Strongly Disagree ไม่เห็นด้วย อย่างยิ่ง	Disagree ไม่เห็นด้วย	Neither Agree nor Disagree ไม่แน่ใจ	Agree เห็นด้วย	Strongly Agree เห็นด้วย อย่างยิ่ง
	Attention (ความตั้งใจความใส่ใจ)					
1.	When the flipped classroom was introduced at the beginning of this subject, there was something interesting that got my attention. เมื่อทราบว่าวิธีการแบบ Flipped classroom จะได้ถูกนำมาใช้ในวิชานี้ มีบางสิ่งทำให้ฉันเกิดความสนใจ					
2.	To me the flipped classroom is one of an eye-catching teaching method. สำหรับฉันแล้ว วิธีการแบบ Flipped classroom เป็นวิธีที่น่าสนใจมาก					
3.	The quality of the video helped to hold my attention. คุณภาพของวิดีโอช่วยคงความสนใจของฉัน					
4.	The content of this subject looks difficult. เนื้อหาของวิชานี้ค่อนข้างยาก					
5.	The way that my teacher arranged information on the video was interesting and helped keep my attention. วิธีการที่อาจารย์ได้จัดเรียนเนื้อหาในแต่ละวิดีโอ เป็นวิธีที่น่าสนใจและสามารถดึงดูดความสนใจของฉันไว้ได้					
6.	This subject has got things that encouraged my curiosity. วิชานี้มีบางสิ่งบางอย่างที่กระตุ้นความสนใจใคร่รู้ของฉัน					
7.	The video in this subject is short and intention. ช่วงเวลาของแต่ละวิดีโอในวิชานี้มีความสั้นและกระชับ					

Items	Topics	Strongly Disagree ไม่เห็นด้วย อย่างยิ่ง	Disagree ไม่เห็น ด้วย	Neither Agree nor Disagree ไม่แน่ใจ	Agree เห็นด้วย	Strongly Agree เห็นด้วย อย่างยิ่ง
8.	The variety of in-class activities such as group discussion, presentation, case study etc., helped keep my attention on this subject. ความหลากหลายของกิจกรรมในห้องเรียน เช่น การอภิปราย กลุ่ม การนำเสนอ หรือกรณีศึกษา ช่วยดึงดูดความสนใจของฉันให้อยู่กับวิชานี้					
9.	The video is too long that it does not attract me. วิดีโอมีความยาวเกินไปและไม่ดึงดูดใจ					
	Relevance(ความเกี่ยวข้อง)					
1.	It is obvious that the flipped classroom teaching method is related to things I already know. เห็นได้ชัดว่า วิธีการแบบ flipped classroom มีความเกี่ยวข้องต่อสิ่งที่ฉันได้เรียนรู้มาแล้ว					
2.	Social media and online channel such as YouTube, Google Classroom, and Facebook are something that I get used to and then become my important learning resources. สื่อสังคมออนไลน์และช่องทางออนไลน์ เช่น YouTube, Google Classroom และ Facebook เป็นสิ่งที่ฉันคุ้นเคยและกลายเป็นแหล่งข้อมูลการเรียนรู้ที่สำคัญของฉัน					
3.	Flipped classroom VDOs are relevant to the learning objectives วิธีการแบบ flipped classroom มีความเกี่ยวข้องกับวัตถุประสงค์ในการเรียน					
4.	The VDOs and way of flipped classroom teaching style is relevant to my interests. วิดีโอและวิธีการสอนแบบ flipped classroom มีความเกี่ยวข้องกับความสนใจของฉัน					
5.	The VDOs of this subject was relevant to my needs. วิดีโอวิชานี้มีความเกี่ยวข้องกับความต้องการของฉัน					
6.	I could link the content of this subject to my experience ฉันสามารถเชื่อมโยงเนื้อหาของวิดีโอในวิชานี้กับประสบการณ์ของฉันได้					
7.	The content of this subject is useful when I have exam. เนื้อหาในวิดีโอมีประโยชน์เมื่อฉันต้องทำข้อสอบ					
8.	The knowledge of this subject will be useful to me in the future.					

Items	Topics	Strongly Disagree ไม่เห็นด้วย อย่างยิ่ง	Disagree ไม่เห็น ด้วย	Neither Agree nor Disagree ไม่แน่ใจ	Agree เห็นด้วย	Strongly Agree เห็นด้วย อย่างยิ่ง
	ความรู้ในวิชานี้จะเป็นประโยชน์ต่อฉันในอนาคต					
	Confidence (ความมั่นใจ)					
1.	When I first started at this subject, I had the feeling that it would be easy for me. เมื่อตอนเริ่มต้นเรียนวิชานี้ ฉันมีความรู้สึกกว่าวิชานี้จะเป็นวิชาที่ง่ายสำหรับฉัน					
2.	The VDO clips used in the class were difficult to understand. วิดีโอที่ใช้ในห้องเรียนยากเกินกว่าที่จะเข้าใจ					
3.	I came in class with feeling bad if I did not watch video or study about the lesson in advanced. ฉันมาเรียนด้วยความรู้สึกที่ไม่ค่อยดีเพราะฉันไม่ได้ศึกษาจากวิดีโอมาก่อนที่จะเข้าห้องเรียน					
4.	There were some lessons in this subject that had so much information that I could remember or understand by reading it myself. มีหลายบทเรียนในวิชานี้ที่มีเนื้อหาเยอะซึ่งฉันไม่สามารถที่จะเข้าใจมันได้โดยการอ่านด้วยตัวเอง					
5.	The more I watch video by myself the more I can get concentration and confidence to learn the lessons. ยิ่งฉันได้ดูวิดีโอบ่อยมากเท่าไร ทำให้ฉันมีสมาธิและมีความมั่นใจในการเรียนมากขึ้น					
6.	After studying on this subject using flipped classroom method for a while, I was confident that I would be able to pass exams. หลังจากเรียนวิชานี้โดยใช้วิธีการแบบ flipped classroom มาได้ระยะเวลาหนึ่ง ฉันมีความมั่นใจว่าฉันจะสามารถสอบผ่านวิชานี้ได้					
7.	I could understand this subject well. ฉันสามารถเข้าใจเนื้อหาวิชานี้ได้ดี					
	Satisfaction (ความพึงพอใจ)					
1.	The Flipped classrooms are more engaging than traditional classroom teaching. วิธีการแบบ flipped classroom น่าสนใจกว่าวิธีการเรียนการสอนแบบดั้งเดิม					
2.	I enjoyed this subject so much that I would like to learn more about the subject in the future.					

Items	Topics	Strongly Disagree ไม่เห็นด้วย อย่างยิ่ง	Disagree ไม่เห็น ด้วย	Neither Agree nor Disagree ไม่แน่ใจ	Agree เห็นด้วย	Strongly Agree เห็นด้วย อย่างยิ่ง
	ฉันสนุกกับการเรียนวิชานี้มากและต้องการที่จะศึกษาเกี่ยวกับหัวข้อนี้อีกในอนาคต					
3.	I like spending time outside the class watching video because I can watch it whenever I want. ฉันชอบใช้เวลาในห้องเรียนในการดูวิดีโอ เพราะฉันสามารถดูเมื่อไรก็ได้ที่ฉันต้องการ					
4.	The wording of feedback after in-class activities helped me feel rewarded for my effort. การได้รับคำติชมหลังจากการทำกิจกรรมในห้องเรียนช่วยให้ฉันมีกำลังใจมากขึ้น					
5.	The flipped classroom provide greater opportunity to communicate with my friends in class. วิธีการแบบ flipped classroom ทำให้ฉันได้มีโอกาสสื่อสารกับเพื่อนๆ ในชั้นเรียน					
6.	I feel that flipped classroom enhancing my ability to learn and gave me a satisfying feeling of accomplishment. ฉันรู้สึกว่าการแบบ flipped classroom เพิ่มความสามารถในการเรียน และความพึงพอใจในการบรรลุเป้าหมายในการเรียนวิชานี้					
7.	I learned some things that were unexpected from watching the video. ฉันได้เรียนรู้บางสิ่งบางอย่างจากการศึกษาจากวิดีโอ					
8.	I learned a lot from this subject by using flipped classroom. ฉันได้เรียนรู้อย่างมากในวิชานี้จากการใช้วิธีการเรียนการสอนแบบ flipped classroom					

ตอนที่ 3 คำชี้แจง : โปรดแสดงความคิดเห็นได้อิสระตามความคิดเห็นของท่านลงในช่องว่าง

Part 3 Direction: Please give your opinion on provided space.

1. ท่านมีความเห็นอย่างไรต่อการศึกษา VDO เกี่ยวกับเนื้อหาที่สอนมาจากหรือ ศึกษาเองที่บ้าน

What do you think about studying the business content VDOs from home or at home?

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.....

2. อุปสรรคของท่านต่อการใช้สื่อVDO ในการเรียนการสอน คือ

The barriers influencing the use of VDO in teaching and learning activities.

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3.ความคิดเห็นหรือข้อเสนอแนะอื่นๆ เกี่ยวกับการใช้สื่อวิดีโอในการเรียนการสอน

Any other comments or recommendation regarding the use of VDO in teaching and learning.

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One of our purpose in this study in how students' motivation affects learning. The results on this study will use to enhance the development of teaching methods for students in International College, Rajabhat University.

Thank you for your co-operation.

Items about motivation in learning	Group One		Group Two		Group Three	
	Mean	SD	Mean	SD	Mean	SD
ARCS – A - Attention						
1. When the flipped classroom was introduced at the beginning of this subject, there was something interesting that got my attention.	3.63	0.65	3.07	0.92	3.82	0.59
2. To me the flipped classroom is one of an eye-catching teaching method.	3.38	0.71	3.36	1.08	3.61	0.61
3. The quality of the video helped to hold my attention.	3.71	0.75	3.14	1.23	3.91	0.81
4. The content of this subject looks difficult.	1.92	0.78	2.14	1.03	2.86	0.83
5. The way that my teacher arranged information on the video was interesting and helped keep my attention.	3.54	0.78	2.71	0.83	3.77	0.61
6. This subject has got things that encouraged my curiosity.	3.50	0.66	3.43	0.85	4.05	0.58
7. The video in this subject is short and intention.	3.42	0.83	3.14	0.77	3.73	0.83
8. The variety of in-class activities such as group discussion, presentation, case study etc., helped keep my attention on this subject.	3.37	0.82	3.64	0.74	4.09	0.81
9. The video is too long that it does not attract me.	2.79	0.83	2.93	0.73	3.18	1.10
Total (Sum A)	3.25	0.43	3.06	0.50	3.68	0.33
ARCS – R - Relevance						
1. It is obvious that the flipped classroom teaching method is related to things I already know.	3.63	0.71	3.43	0.76	3.50	0.60
2. Social media and online channel such as YouTube, Google Classroom, and Facebook are something that I get used to and then become my important learning resources.	3.96	0.96	4.29	0.61	4.36	0.58
3. Flipped classroom VDOs are relevant to the learning objectives	3.96	0.75	3.79	0.58	3.68	0.65
4. The VDOs and way of flipped classroom teaching style is relevant to my interests.	3.63	0.77	3.29	0.61	3.77	0.61
5. The VDOs of this subject was relevant to my needs.	3.46	0.83	3.14	0.53	3.50	0.74
6. I could link the content of this subject to my experience	3.75	0.85	3.64	0.50	3.55	0.60

Items about motivation in learning	Group One		Group Two		Group Three	
	Mean	SD	Mean	SD	Mean	SD
7. The content of this subject is useful when I have exam.	3.92	0.97	3.50	0.65	4.14	0.56
8. The knowledge of this subject will be useful to me in the future.	3.87	0.90	4.14	0.66	4.18	0.66
Total (Sum R)	3.77	0.68	3.65	0.30	3.83	0.32
ARCS – C - Confidence						
1. When I first started at this subject, I had the feeling that it would be easy for me.	3.17	0.92	2.64	1.22	3.00	1.02
2. The VDO clips used in the class were difficult to understand.	3.00	0.83	2.86	0.77	3.05	0.84
3. I came in class with feeling bad if I did not watch video or study about the lesson in advance.	3.04	0.96	3.50	1.16	2.77	1.11
4. There were some lessons in this subject that had so much information that I could remember or understand by reading it myself.	3.58	0.97	3.93	0.83	3.23	0.87
5. The more I watch video by myself the more I can get concentration and confidence to learn the lessons.	3.46	0.66	3.07	0.62	3.68	0.72
6. After studying on this subject using flipped classroom method for a while, I was confident that I would be able to pass exams.	3.25	0.79	3.07	0.62	3.59	0.73
7. I could understand this subject well.	3.37	0.71	3.00	0.88	3.55	0.80
Total (Sum C)	3.26	0.46	3.15	0.33	3.26	0.32
ARCS – S - Satisfaction						
1. The Flipped classrooms are more engaging than traditional classroom teaching.	3.54	0.88	2.86	0.86	3.68	0.78
2. I enjoyed this subject so much that I would like to learn more about the subject in the future.	3.58	0.78	3.50	0.76	3.82	0.66
3. I like spending time outside the class watching video because I can watch it whenever I want.	3.71	0.75	3.57	0.76	3.91	0.87
4. The wording of feedback after in-class activities helped me feel rewarded for my effort.	3.50	0.83	3.36	0.63	4.00	0.76
5. The flipped classroom provide greater opportunity to communicate with my friends in class.	3.38	0.65	3.29	0.61	3.82	0.91

Items about motivation in learning	Group One		Group Two		Group Three	
	Mean	SD	Mean	SD	Mean	SD
6. I feel that flipped classroom enhancing my ability to learn and gave me a satisfying feeling of accomplishment.	3.29	0.81	3.43	0.65	3.59	0.73
7. I learned some things that were unexpected from watching the video.	3.63	0.65	3.50	0.76	4.05	0.72
8. I learned a lot from this subject by using flipped classroom.	3.54	0.83	3.36	0.63	4.05	0.65
Total (Sum S)	3.52	0.62	3.35	0.47	3.86	0.55



Information of the interviewees

Table : Interviewees' detail

Interviewees	gender	Age	Program	Devices	Speed-internet
A1	Female	19	GBM	Smartphone Computer	Yes
A2	Female	20	GBM	Smartphone Computer	Yes
B1	Female	23	GBM	Smartphone Laptop	Yes
B2	Female	22	GBM	Smartphone Laptop	Yes
C1		NA	EIC	Smartphone Laptop	Yes
C2		NA	EIC	Smartphone Computer	Yes

Interview Transcribed

Student A1

Interview Questions

1. How do you feel about videos content or other materials that your lecturer provided?

I think all of the videos and other materials are consistent with the course. Most of them have interesting content, which is attractive me more than study through the books. The videos content are from every side of the world, and it makes me open my new education world. It also make me feel free to study, I can learning by myself again and again, anytime and everywhere.

2. To what extend what benefit you found in the videos content or other materials that your lecturer provided?

I found knowledge is not only in the books. Technology is growing very fast, and with adapt knowledge into technology, I think it is more accessible for study. I don't have to waste much time to study as uses the book, I enjoy while I study, I can use technology as utility and it be as the tool that make me understand easily.

3. How would you like the videos to be developed?

I would like the videos to be always updating information. Because I think, the content can be change as day by day. And for defense misunderstanding. The videos content developers should follow and keep updating information as the worldwide are.

4. Do you have any suggestion/recommendation toward the videos based learning?

In my opinion, I rather agree with study through the videos but I didn't mean just give the videos and let students learning by their own, and then give some assignment to them, because some content in videos still hard to understand if it without lecturer's explanation.

Student A2

Interview Questions

1. How do you feel about videos content or other materials that your lecturer provided?

I think this method is very suitable for me. This approach reduces unnecessary problems and adds a lot of fun and convenience. This kind of teaching is a good way for our learning, It compress the textbooks and just displays the essence, which makes our study and review more targeted and strengthens our confidence in learning this course.

The teaching content is also excellent. According to the characteristics of the knowledge structure, the lecture highlights key points, combines theory with practice, so that we can have a high classroom efficiency and the lecture's teaching content is quite detailed, most students can learn from the lecture's ideas, also can timely propose and solve problems.

2. To what extend what benefit you found in the videos content or other materials that your lecturer provided?

This learning method has many advantages over the old-fashioned teaching mode. First of all, this method is new to us, so that we have enough interest to learn. Secondly, it is richness, the content is rich and not boring, students can arrange their own time to study. Besides, the course content is compact and abundant, which is beneficial for students to master the class content in a short time.

3. How would you like the videos to be developed?

This teaching mode is very distinctive, but the teaching materials also need to be distinctive to arouse students' interest and achieve good teaching results. I suggest adding some real-time news related to teaching materials, related explanation, topic debate, etc., so that students can be interested in listening with the guidance of lectures. The teaching effect is bound to be much better. If we simply use the usual teaching methods in course, it's just like changing a blackboard.

4. Do you have any suggestion/recommendation toward the videos based learning?

In general, I think video base learning has both disadvantages and advantages, but I am willing to accept new things. I hope it can truly enter our classroom. However, this teaching method is more suitable for students with strong self-control, because this learning method requires self-motivated learning. For students with poor self-control, this method can hardly improve their learning quality.

Student B1

In-Depth Interview Questions

5. How do you feel about videos content or other materials that your lecturer provided?

The videos felt a little too long. It was just like listening to the same lecture that would be given in class, but in video form. If I am going to listen for the same amount of time that I would if I were in a classroom I would prefer to be in the classroom so I can ask questions while listening. It is harder to be an active listener to a longer video. I really enjoyed the textbook for this course. The material was presented clearly and it had some very interesting quotes for each topic.

6. To what extent what benefit you found in the videos content or other materials that your lecturer provided?

I found that the textbook gave me the most benefit for learning the subject. I don't think that there were enough videos for them too have much of an impact on the subject for me. The lecturer did not provide many video. If she provided more numbers and shorter videos with some highlight contents, this method might be more interesting to me.

7. How would you like the videos to be developed?

I would like them to be less like recorded lectures and more like highlights of the key concepts with suggested readings and some practice exercises. I think making the videos more interactive in this way will help students engage and learn more from them.

8. Do you have any suggestion/recommendation toward the videos based learning?

Only what I suggested for question number 3. Key concepts, suggested readings, and practice questions and exercises.

Student B2

Interview Questions

1. How do you feel about videos content or other materials that your lecturer provided?

If about videos I feel it's modern but if I don't understand something it can't ask to teacher. I like studying in slide from power point because It is a summary of all content and easy to understand.

2. To what extend what benefit you found in the videos content or other materials that your lecturer provided?

Benefit from videos content are easy to study at home and I will study any time.

3. How would you like the videos to be developed?

For me if have study in videos I want to learn easytounderstand videos with content.

4. Do you have any suggestion/recommendation toward the videos based learning?

In study videos I think it's not okay for people don't understand from lesson because if have people don't know something it can't ask people in videos. It easy to study and modern but someone will don't get anything from this.

Student C1

Interview Questions

1. How do you feel about the videos content or other materials that your lecturer provided?

I think it's also good and easy to learn, help students to improve their skills by themselves but sometimes I think the subject aren't easy even you describe it already but some students still not understand clearly so they have to listen to you in class again.

2. To what extent you feel the videos or other materials your lecturer provided have benefited you?

When I don't understand in some content, I can pause the video to search others detail about that and back to the video. I can repeat it when I don't clear with the lesson.

3. How would you like the videos to be developed?

Speak loudly and clear, easy to understand.

4. Do you have any suggestions/recommendations in regards to the videos based learning?

No, I don't have any suggestion.

Student C2

Interview Questions

1. How do you feel about the videos content or other materials that your lecturer provided?

It's really creating way of teaching and new for me. I think video content that lecturer provide is a good technique to motivates students, being active and trying to prepare the lessons before the class get start.

2. To what extent you feel the videos or other materials your lecturer provided have benefited you?

We can learn reading, listening and writing at the same time from the video.

3. How would you like the videos to be developed?

To give more example of the contents in the video, it would be great.

4. Do you have any suggestions/recommendations in regards to the videos based learning?

No, I don't.

Categories of contents

Coding	Categories of Content
A	ARCS - Attention
	<i>attention to engage in higher levels of curiosity, particularly at the beginning of the class</i>
R	ARCS - Relevance
	<i>the learners' learning goals, past experiences, and learning styles</i>
C	ARCS - Confidence
	<i>students build positive successful expectations.</i>
S	ARCS - Satisfaction
	<i>positive feelings about their learning experiences, which sustain their motivation in learning</i>

Content Analysis

The results from the interview and open-ended questions were analyzed using content analysis. The motivation in learning which in this study, the motivation was classified into 4 categories regarding Keller's ARCS motivation model including attention, relevance, confidence, and satisfaction.

5) Attention

Attention is the initial importance factor that draws learners' attention to engage in higher levels of curiosity, particularly at the beginning of the class. Moreover, it is vital to sustain learners' attention throughout the lesson.

6) Relevance

Relevance refers to the connection of the instructional content or the teaching strategies to the learners. These connections could involve the learners' learning goals, past experiences, and learning styles. The link between the content to learners' goals, experiences or interests, and learning styles that could be promoted during learning time.

7) Confidence

Confidence is the third condition which helps students build positive successful expectations. This can be accomplished by giving students clear objectives and accomplished examples. Some students have low confidence since they have little comprehension of what teachers expect from them.

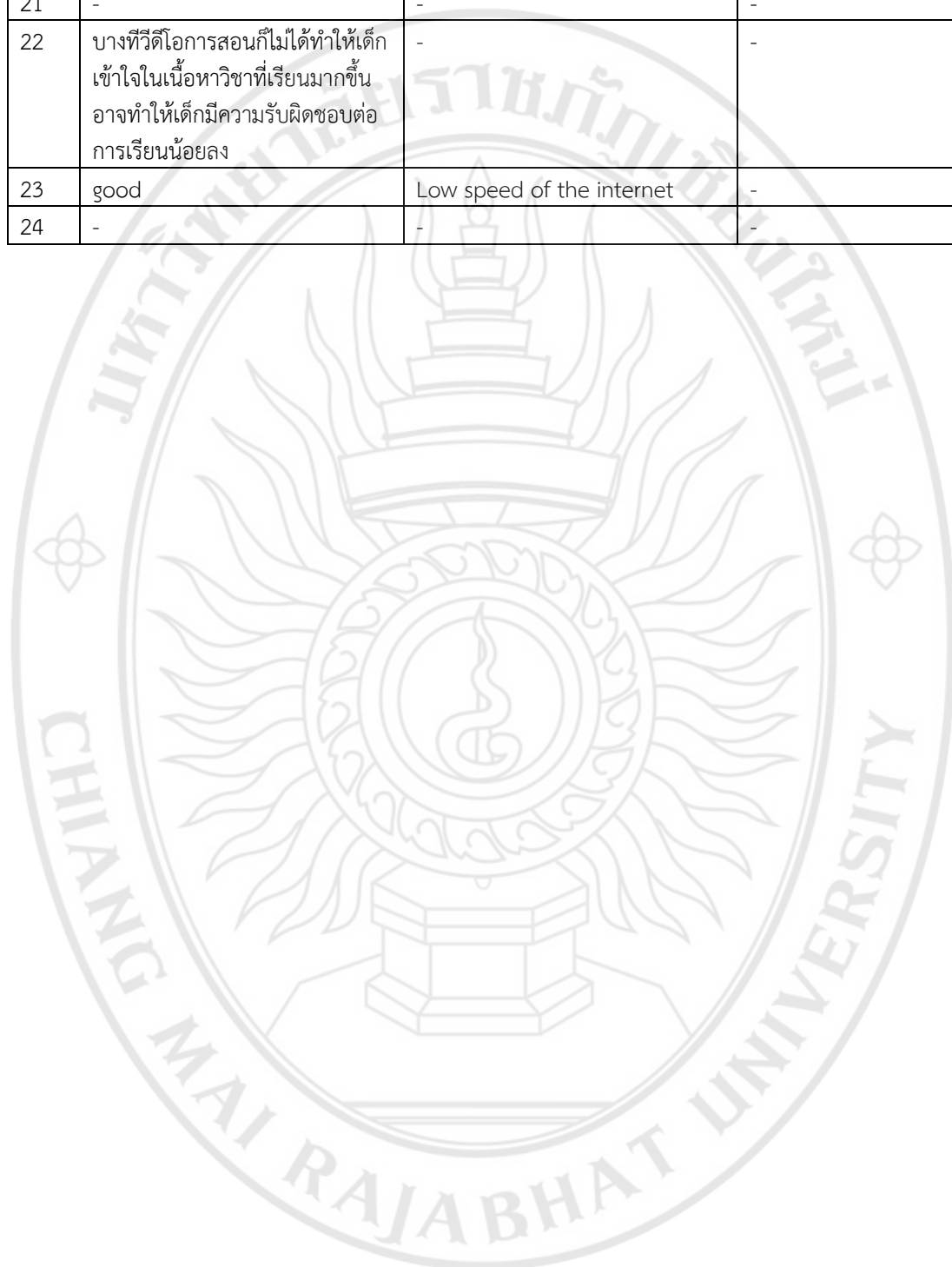
8) Satisfaction

Satisfaction is required as the factor to sustain motivation in learning. The first three principles are necessary to build students' motivation to learn, while the fourth factor, satisfaction, is essential for learners to have positive feelings about their learning experiences, which sustain their motivation in learning.

Questionnaire Results: Part 3 – Group One

No.	Q1	Q2	Q3
1	Gain more knowledge	Speed of the internet	อยากมีเวลาทำวิดีโอให้มากกว่านี้
2	No need to sit reading in the book.	I don't understand all the content.	-
3	It's a good way to learn and find knowledge.	-	-
4	The lesson can be learned all the time.	Sometimes, I don't understand so I have to read in the book.	-
5	Speaking is too fast, cannot follow.	There is noise in the VDOs.	Should speak more slowly, in VDOs are still have noise but the teacher put a lot of effort.
6	It's difficult to understand.	Language and vocabulary is difficult.	-
7	It's fresh for me and I can spent much more time but when I met the problem, it can't be fixed.	-	Sometimes the content is too short and not interest. But it is still good to try.
8	I can watch the video before studying and doing exam.	Internet	I want teacher post the video in all chapters and on time.
9	I have a better understanding after watching the VDOs.	Internet	I want teacher post the video in all chapters.
10	-	Internet	-
11	I can watch it again and again. The VDOs content is easy to understand.	Low speed of the internet	Need more explanation in Thai.
12	I want teacher teach along with making VDOs so I can study by myself too.	Sometimes, I don't understand some vocabulary. Low speed of the internet	Need subtitle in Thai for difficult vocabulary.
13	Some content is too hard for self-study.	Low speed of the internet	-
14	I think good and bad 50% with 50%	I think when we have exam, use the VDO in teaching and learning activities is good.	Maybe good. No comment
15	-	Internet	-
16	Convenient but cannot ask teacher when have questions.	Smart phone	-
17	Have no time	Sleepy, long, lazy	-
18	Too difficult to understand, too much content.	Smart phone	ให้อาจารย์ลดการทำงานสรุปและให้ดูเป็นยูทูปแล้วมาวิเคราะห์หว่าได้อะไรจากที่ดูบ้างแล้วถามเป็นกลุ่มหรือเดี่ยว จะได้มีความรู้ของแต่ละ

			คน จะได้เสนอความคิดเห็นและ กล้าที่จะตอบ
19	Have no time	Internet	Sometimes don't understand
20	-	-	-
21	-	-	-
22	บางทีวิดีโอการสอนก็ไม่ได้ทำให้เด็ก เข้าใจในเนื้อหาวิชาที่เรียนมากขึ้น อาจทำให้เด็กมีความรับผิดชอบต่อ การเรียนน้อยลง	-	-
23	good	Low speed of the internet	-
24	-	-	-



Questionnaire : Part 3 – Group Two

No.	Q1	Q2	Q3
1	I think if the student actively searches out such content it is fine, but most students view it as homework and refuse to do anything outside of class.	Many won't watch VDOs so they don't learn anything.	No.
2	If I don't understand, I can't ask lecturer.	Note important information	Use VDOs together with sheets
3	-	-	-
4	I like it because I can learn at home or anywhere else.	The internet speed and smart phone	-
5	-	-	VDOs content should be concise and fun. The length of VDOs should not be too long.
6	-	-	-
7	I have better understanding.	-	-
8	-	-	-
9	If I read or watch VDOs at home, it makes me understand about the lesson in class.	I have a lot of work at my house so I don't have enough time to learn by myself.	I think it's not ok for me because I have work at home and I'd better learn in class than watch the VDOs.
10	-	-	Need better quality of audio and image.
11	Good idea.		
12	I'm able to study before coming to class.	Signal of the internet.	Should add sense of humor and be more excited
13	I'm able to study before coming to class.	Signal of the internet.	Should be more interested and excited
14		Signal of the internet.	I think using VDO in teaching and learning is a good idea and then learn together again in class.

Questionnaire : Part 3 – Group Three

No.	Q1	Q2	Q3
1	Understandable but need more explanation from lecturer.	Sometimes, speaking is too fast.	-
2	-	-	-
3	I think study at home at better because when we understand the lesson so we can do a short time activities in classroom.	Someone has a job so they may not have time to study at home. Like me I work every day so that's my problem.	Someone has a low speed of the internet, maybe they cannot watch the video or someone has no internet.
4	-	-	-
5	I have more concentrated on the lesson.	-	-
6	VDOs content suits for studying in class than at home.	Sometimes, just don't understand the content.	-
7	I think that can make me genius and can learn very fast in classroom.	-	-
8	-	-	-
9	-	-	-
10	I think it is good for students, it can make sure that if student didn't understand in classroom, and they can review by VDO again.	-	-
11	-	-	-
12	Teacher should describe the lesson more.	Computer is not in a good condition and speed of internet is not good.	Describe more about the lesson
13	I do understand the information but ,sometimes, i don't.	-	-
14	-	-	-
15	It's good.	I don't have time.	-
16	Sometimes, i don't understand. However I think I can ask lecturer in class.	-	It's ok.
17	-	-	-

18	Sometimes, it's hard to listen clearly and I can't ask lecture immediately.	-	It's better if you can repeat the lesson again in class.
19	-	Sometimes, i don't understand the content and I can't ask.	-
20	I think it's pretty good because if you lose your attention in class for 10 mins you won't be able to know what teacher is talking about for the rest of the class and the VDOs solve this problem.	-	-
21	Home study	Some words or voice	-
22	It's ok because when I forget after class I can revise by myself at home.	-	Carry on, it's interesting.



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