Quality Online Teaching and Learning

Sakchai Chaiyarak iD
Suan Dusit University, Bangkok, Thailand, *sakchai_cha@dusit.ac.th*

Tippawan Meepung* iD
Rajamangala University of Technology Tawan-Ok, Bangkok, Thailand, *tippawan_me@rmutto.ac.th*

Sajeewen Pratsri iD
Thepsatri Rajabhat University, Lopburi, Thailand, *sajeewan.p@lawasri.tru.ac.th*

*Corresponding author E-mail: tippawan_me@rmutto.ac.th

ABSTRACT*: Online teaching has become a new normal in the education industry, a common thing for teachers. Everyone must arrange learning for the learner. The basic characteristics are to manage learning in the same on-time manner as Synchronous Learning. And managing learning in a different way is Asynchronous Learning, which has different ways of managing learning. But to manage quality online learning, there must be a combination of ways to manage learning. By managing face-to-face learning and the online learning characteristics are the reform blended learning. Synchronous and Asynchronous mixes called Hybrid learning create constant interactions with learners, as well as manage learning in a short way. Without providing too much content called microlearning learning, it will make learning a quality learning class.*

Keywords: quality online learning, blended learning, microlearning

1. Introduction

As a result of the COVID-19 pandemic, the Ministry of Education has had to adjust online teaching at all levels. The results of online teaching in recent times of the country According to 38 Rajabhat Universities, A survey a few months ago found that Only 48 percent of full online teaching is offered. Despite the COVID pandemic, it is still a regular classroom instruction, and 29.74 percent use a combination of teaching techniques is Blended. This data reflects that teaching is not 100% fully online, which has factors or problems as to 100% of online teaching is not provided. The second point is that the tools used online are very diverse, such as: Line, Skype, Facebook. Reflecting the incomprehension of online teaching management is still considered. There is a problem with using tools to manage online learning. [1] Therefore, online teaching is inefficient according to the criteria it should be. According to the data, Google Classroom is used to manage online teaching 53.19% Secondly, the program is used. Zoom 43.47% Using Google Classroom will be Asynchronous. (Unsynchronized Learning) However, if you study with zoom, it is a realtime image, is Synchronous. (Synchronized Learning) The most used devices for online teaching are mobile phones. 71.32% notebooks and computers that are supposed to be the right core tools are used to provide online instruction, only 42.27% reflect online teaching where mobile phones are primarily used. This is not a device that supports effective online teaching management [2]. And online teaching via mobile phone is not wrong in any way. Which is why most learners have smartphones but no computers and notebooks, which is why quality issues follow.

Information from instructors in online teaching during the covid pandemic that is most needed is how to manage quality online teaching, but according to data, the use of equipment that is not suitable for quality management, as well as problems with internet speed of use and fatigue in prolonged time of learning through the device screen inevitably affect the quality of online learning. In particular, the lack of social interaction of learners has a significant impact on the quality of life and social life of the learner [3]. And for the learner there must be a learning center. Instructors must reintegrate their learning to control classroom screens and always direct their learning through the screen. Many

learners 59.83% responded in the same direction: It is better to study in a normal classroom than through an online classroom. While research data from educational technologists indicates that online and regular classroom classes produce no different results. But the COVID situation reflects that online learning can't fight classroom study. That's because there is a lack of teacher preparation to organize regular classroom classes. Due to the situation, teachers have to provide online teaching with a lack of pre-preparation and a large lack of understanding of how to each other [4]. There are three characteristics of online teaching: Synchronous, Asynchronous and Blended Learning / Hybridge Learning. The problem of synchronized or real-time online tutorials through Google Meet, Zoom, WebEx instructors are still speakers and explained to learners primarily throughout the course of online tutorials through the screen. Therefore, students do not see the effectiveness of online teaching and learning differently than regular classrooms. [5].

Instructors non-coordinated formats that allow students to have self-learning activities, including practices, and take tests. Students are ready to access learning through digital platforms quickly and with good skills because they are native digital citizens. (Digital Citizen) Therefore, instructors must develop themselves to become skilled tools. Digitally, it can be used to provide effective teaching and learning. It can create flexibility of event time through online classrooms [6]. Use digital platforms to store data and learning materials to make it convenient for learners to access and learn for themselves. Use a variety of techniques to create learning interactions, allowing learners to participate in defining mutual agreements in learning. As well as focusing on all learners' behaviors by using psychology to talk. Discuss, thoroughly question students and encourage students to participate in all activities through questioning and text-based conversations, and will have to reduce the problem of over-assignment in each subject [7].

2. Literature review

2.1 Online Teaching Standards
There are three forms of international online teaching standards in the United States : [8]

1. Quality Online Teaching Refers to standards in teaching and determination of quality teaching methods, including the use of teaching techniques, which have 8 standard considerations. as follows

1) Professional Responsibilities; to teach on time, to teach regularly. Don't leave the classroom

2) Digital Pedagogy; Apply digital technology to teach classes.

3) Community Building; That aligns and responds to a virtual society. Virtual Community refers to the wide range of differences in attending online classes from each learner's location.

4) Learner Engagement is Create mutual agreements with learners to study online, such as turning on cameras, engaging in answering questions, and doing activities through online channels.

5) Digital Citizenship is Learners can use digital technology because they are Digital Citizen Natives.

6) Diverse Instruction And use activities that suit the competence of the learner.

7) Assessment and Measurement is online practices, online quizzes. Actual assessments based on video recording practices or how to send work files. Exercises to learners by mail Once done, it is returned, another approach that can be used to evaluate the learner's learning.

8) Instructional Design, Instructors must design their own online teaching arrangements. To comply with the nature of their subjects and learners.

Quality Online Programs refers to programs and things used to support online teaching such as Zoom, Google meet Internet speed, and suitable devices, comparable to the details set out in Thai Qualifications Framework. And in this benchmark, there must be research to support quality. Operation (Research-Supported) Flexible Use a variety of methods to allow students to perform a variety of activities. (Flexible) Regular reviews and modifications are made to meet the relevant standards. (Regularly Reviewed) Edited and improved by researchers and experts in online teaching (Revised and Updated). Receive advice to develop and improve teaching continuously. This can be performed as an online teaching retraction. (Recommended for use in Development) By operating image control, the program has elements as follows :1) Mission Statement, 2) Governance, 3) Leadership, 4) Planning, 5) Organizational Staff, 6) Financial and Material Resources, 7) Equity and Access, 8) Integrity and Accountability, 9) Curriculum and Course Design, 10) Instruction, 11) Assessment and Learner Performance, 12) Faculty and Staff Support, 13) Learner and Parent/Guardian Support and 14) Program Evaluation [8].

Quality Online Course refers to the subjects that will be online teaching. It is important to have details and the process of the activity. All three models have an important goal: learners gain desirable knowledge and experience. This

includes: Content, Instructional Design, Student Assessment, Technology, Course Evaluation and Management and 21st Century Skills [9].

Online teaching is used with different teaching equipment and tools, but the teaching methodology model in each subject must be different naturally of each subject. Different models must lead to a teaching destination that must have the same quality. Each instructor must be a quality controller in their teaching. By using tools to teach to suit their learners, they can use the tools to teach them. The current online teaching situation through zoom or Google meet is a pattern that has shifted from regular classrooms to face-to-face classes through online programs and back to teacher-centered learning and activities [10]. Therefore, online teaching models require a combination of Asynchronous for students to study for themselves and have activities in practice. The principles of online teaching design are designed. (Instructional Design Principles for Remote Teaching and Learning) as follows:

      1. Instructional Time Expectations is a time to teach each step appropriately.

      2. Connection and Communication with Families and Students.

      3. Student Engagement in Learning Opportunities Aligned to Standards.

      4. Equity, Choice, and Flexibility.

      5. Collaboration among Students for students do group activities together to collaborate on activities.

      6. Feedback on Student Work.

      7. Social and Emotional Learning. It is very important and necessary to teach online, a virtual society that must teach and guide learners to think critically. Rightly known and the reality of what happened. Not oblivious to what is a deceptive story, know how-to live-in society. The right social manners and humanity to live with others in peace. Online teaching therefore requires correct attitudes and mindsets of learners to reality. Blended Learning for meet learners and immunize learners who have to learn for themselves through various online systems to understand what is right [11].

2.2 Blended Learning

The covid-19 pandemic is provoking rapid change. 5G technology and high-speed internet are complementary to the infrastructure that supports complete online teaching. The trend in the future will be a more advanced and modern change with big data, the Internet of Things (IoT), the Internet of Behavior, and Artificial Intelligent (AI). Just talking about what you want, information will automatically appear on the screen and automate learning and interaction guidance with virtual technology Therefore, the principles of managing important online teaching classes and being able to apply them as a basis in the future include: TPAC is the use of technology to organize teaching and learning, Technology, Pedagogical, Contents And the main thing to be aware of when using online information technology systems is to remember passwords to access them. Teaching and learning are focused on more integrated learning management. There are different formats such as: [13]

      1. Station-Rotation Model For example, let learners switch learning through MOOCs, learn from YouTube, or learn from eLearning.

      2. Lab-Rotation Model, Divide the turnover time to use the laboratory. laboratory

      3. Flipped-Classroom Model, It is to learn and study the information yourself of the learner beforehand and then apply a work sheet or activity to practice in the classroom.

      4. Individual-Rotation Model, It is for students to learn for themselves according to their potential. Aptitude and attention

      5. Flex, give learners the opportunity to create social interactions.

      6. Enriched Virtual, Focus on virtual learning through AR, VR, MR or Simulation.

The current online teaching situation is that Most instructors have never been online students before. While students will face online learning at all levels, from kindergarten, primary, secondary, and higher education, it becomes disruption that is changing rapidly and has serious consequences. Multiple teaching vocabulary definitions, such as Youtubers that use the method of recording video tutorials and uploading them to the YouTube Channel, allowing students to access teaching or recording through MS-Teams so that they can visit the tutorial at a convenient time. The management of education at the basic level still relies primarily on teachers to manage learning. In higher education, students can learn to study and learn more on their own from Thai MOOCs by reducing material learning in certain areas in the classroom and then learning for themselves more from learning resources with certificates.

Changing the new concept of providing quality online teaching must focus on developing skills. (Skills) and competencies of learners rather than the achievement of learning. The new curriculum, which takes place in 2022, will be a performance base course where students are capable of hands-on. Therefore, instructors must start by defining the

purpose of learning that focuses on the learner's objective skills and abilities, followed by designing learning management for the learner to achieve the intended purpose (Instructional Design) to lead to the destination goal or learning outcome. Learning Outcomes, where learners achieve real learning performance, covers evaluation in all three areas: Knowledge, Skills, and Attitude (KSA) [14]. And use the appropriate technology for measuring and evaluating learners' learning in accordance with remote learning management practices. Either in the form of recording the stages of action or displaying empirical practices through an online screen. With a wide range of tools and modernization [15].

Blended Learning There are two formats: vertical and horizontal. Vertical formats divide the teaching time of each week. For example, how many hours of teaching is carried out online and how many hours will the learner learn for themselves. If it is 50:50, it means 2 hours online. Learn for yourself through eLearning or MOOCs for 2 hours, for example. Horizontal is a plan for teaching throughout the semester, such as meeting students and then studying online until the midterm exam and online and then the final exam [16]. All of which depend on the instructor's flexible online teaching design and the use of teaching techniques. Interactions with learners through different online channels and creating activities for learners to collaborate or use café formats in online teaching include: Contents, Activities, Facility, internet infrastructure and Evaluation [5].

Providing successful online teaching and learning consists of factors. as follows
1. Instructional Design is Provide the most learning experiences for learners.
2. Learning Style
3. Contents To suit the time, not too much.
4. Evaluation
5. Engagement To learn for learners

If you want to evaluate mixed online teaching and learning You can enter your self-assessment on the UNESCO Bangkok Office website [17]. Providing a self-assessment model to assess the quality of higher blended learning management of Asia Pacific countries.

Figure 1. Blended Learning Self-Assessment Tool for Quality Higher Education in Asia-Pacific [17]

2.3 Micro Learning

Online learning with Micro Learning just one purpose must be defined. use time-tight content with a variety of formats, such as video clips or slides, and highlight learning activities. Micro Learning takes about 20-30 minutes. for learning arrangement [18]. This may be a switch for learners to circulate as presenters and researchers. Then evaluate the learning. In addition, Micro Learning can use mobile learning management techniques with online games and blog for summaries. Instructors can choose for teaching, which also includes examples of learning management. Micro Learning is in many research that shows that short learning management is a way to manage quality learning [19]. It is used as one of the online learning techniques suitable for an era when learners do not want to continue learning. But they only want to learn important and necessary. Because the details of the content can be further learned from the learning resources themselves [20].

3. Conclusion

The next step in online teaching the situation in the future is virtual technology. The issues that instructors must be aware of in managing online learning with virtual technology are the emphasis on 21 century skills, the skills needed in the future, and the emphasis on the emotional and social intelligence of learners. The COVID-19 situation over the past year reflects the impact on students absent of social interaction as they should be, social activities that will contribute to mutual relationships in the real world. collaborative skills of humanity emotional and social intelligence from giving the right and appropriate advice from teachers, so instructors need to adjust their mindset and learners to be ready to change. Emphasis on virtue Ethics and humanity to online learners are exceptionally high. This is because only human beings can teach humanity to humanity together.

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