

Developing a Method for Improvisation of an Electric Guitar: A Case Study of B.B. King's Guitar Method Using Applied Classroom Method

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ABSTRACT

This research piece is part of a thesis on developing an electric guitar improvisation approach, which includes a case study of BB King's guitar-playing method organized using the flipped classroom concept. This study intends to establish an electric guitar improvisation approach utilizing a case study of BB King's guitar-playing method by structuring learning activities using the flipped classroom concept. The study's findings revealed that the learning process was 82.86/84.76 effective, surpassing the normal requirement of 80/80. The development process included researching and organizing the content structure, collaborating with music education professionals, and updating the content, including assessment tools, to ensure it was appropriate for the learners. The experiment's results in the sample group revealed that the pupils' skills improved significantly. The efficacy index was 0.68, which represented a 68% gain. Additionally, students demonstrated excellent learning behavior and were highly happy with the teaching and learning process. Overall satisfaction of students in the teachers' roles was at a high level. Each aspect can be ranked in order from higher to lower as follows: The feature of the teacher's role was at the highest level, followed by the aspect of learning benefits, student's role in flipped classroom learning, and media and instructional management systems respectively.

Keywords: Improvisation, Electronic Guitar, Flipped Classroom Method, Music Education, Foundation of Knowledge

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1. Introduction

Improvisation is a process that combines analysis and direct practice, building on a foundation of knowledge and advanced planning, and is at the heart of jazz. Scales, harmony, and rhythm are the key components of improvisation. Outstanding inventions require practice, mastery of music theory, and application of information. B.B. King, a world-renowned blues guitarist, was a legendary personality who played the guitar with charm and a distinct style. He is an example of someone who used improvisation

to develop his style, employing particular methods such as bending, the Key Dominant 7 and Pentatonic scales, and Hammer-on and Pull-off techniques.

Music education in Thai higher education institutions continues to be taught through example and practice. Students were found to have developmental challenges as a result of their diverse origins, lack of confidence, and a lack of a modern learning environment. In other words, in the twenty-first century, learning cultures all over the world have highlighted the importance of participatory learning,

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with students at the center of learning and teachers or instructors helping them. As a result, this research study selected to employ the flipped classroom learning approach in order to achieve a more successful result for guitar learning (Phanit, 2013; Sirathanakul et al., 2023; Channuwong, 2014). Bergman and Sams (2022) developed the flipped classroom model to assist students who struggled to keep up with class due to sports, activities, or delayed learning absences. The purpose of flipping the classroom was to change the teacher's teaching method from lecturing in front of the class to being a trainer, training students to do exercises or other activities in the classroom individually, or being a tutor, to use technology that modern children are familiar with, which is "ICT," or to bring the world of the school to the world of the learner, which is the digital world, to assist busy children, weak students who are diligent, and children with varying abilities in their teaching. The flipped classroom concept is thus offered to satisfy the needs of learners in the digital age, emphasizing digital learning at home while utilizing classroom time for in-depth practice.

The researchers envision creating a teaching kit to create the approach of improvising electric guitar, a case study of BB King's guitar-playing method, using the flipped classroom teaching model. Because music education in general is based on the teacher teaching and allowing pupils to practice. After the teaching hour, the teacher gives the pupils homework at home. In the current COVID-19 environment, higher education teaching must be primarily online. As a result, the implementation of flipped teaching is congruent with the researcher's earlier concern of expanding students' knowledge of musical skills. They can learn at home, and if the kids continue. They can learn at home, and if they still don't comprehend what the teacher is saying, they can scroll back and forth to watch the video again. Adjust your understanding and build different skills. As a result, researchers are interested in a novel technique for teaching and studying electric guitar improvisation. The approach uses an analysis of BB King's guitar-playing style to teach music theory, improvisation, creative thinking, accent training, and proper finger form. The research methodology is multimodal, combining qualitative and quantitative research to produce an exercise model for improving electric guitar improvisation skills. This is a continuation of information and creative thinking

skills to make connections and be further developed and implemented throughout the process.

This study intends to develop an improvisation approach for electric guitar by analyzing B.B. King's techniques and utilizing the flipped classroom concept to produce a teaching kit that helps learners acquire musical abilities, creativity, and originality. This study employs a hybrid technique, combining qualitative and quantitative research, to generate knowledge and develop learning methods fit for learners in the contemporary situation.

2. Objectives of Research

2.1 To investigate the evolution of electric guitar improvisation approaches through a case study of BB King's guitar-playing method

2.2 To create electric guitar improvisation approaches by using a case study of BB King's guitar playing style, and organizing learning activities through the flipped classroom concept

3. Scope of Research

The researchers characterized the scope of the investigation as follows: Content scope 1) Study BB King's songs and guitar-playing methods; 2) Understand the principles of improvisation; 3) Investigate the development of instructional sets and the assessment of creativity; and 4) Study knowledge about the flipped classroom.

Population and sample scope 1) Informants in the creation of teaching sets, university lecturers, educators who teach Western music courses, major guitar; and 2) Population, consisting of 1 second-year undergraduate students majoring in Western music, main guitar, Faculty of Fine Arts, Khon Kaen University, with twelve persons.

4. Definition of Research Terminology

Improvisation is the process of creating a melody, rhythm, or musical form by thinking and acting in the moment without specifying or preparing in advance by using the electric guitar, which has a distinct identity that distinguishes it from other musical instruments, namely Bending, Vibrato, Hammer on & Pull off, and the use of the Blues Scale. The most popular chord progression in blues songs is 12 bar blues, which makes improvisation a key aspect of blues guitar playing.

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B.B. King's is a world-famous blues musician with a distinctive playing style. B.B. King's playing style incorporates a range of techniques, accents, dynamics, and inventive improvisations. String bending is particularly distinctive of B.B. King's improvisational technique.

Flipped Classroom is a popular 21st-century concept that has been developed to create 21st-century abilities through its implementation in a variety of scenarios. This research study was carried out by establishing teaching and learning sessions on the development of electric guitar improvisation techniques. In a case study of BB King's guitar-playing technique, the teacher assigned students to study and explore various media created by the teacher before and after class. Before beginning the exercise in class, there will be a discussion to assess the students' prior and post-class knowledge, as well as their interests. This is to adapt the content to fit the remaining days and times. It will be based on the student's personal experience playing the electric guitar. In the classroom, the teacher will act as a guide, assisting pupils in learning from their own experiences. This will result in a student-centered learning environment or student participation.

5. Research Conceptual Framework

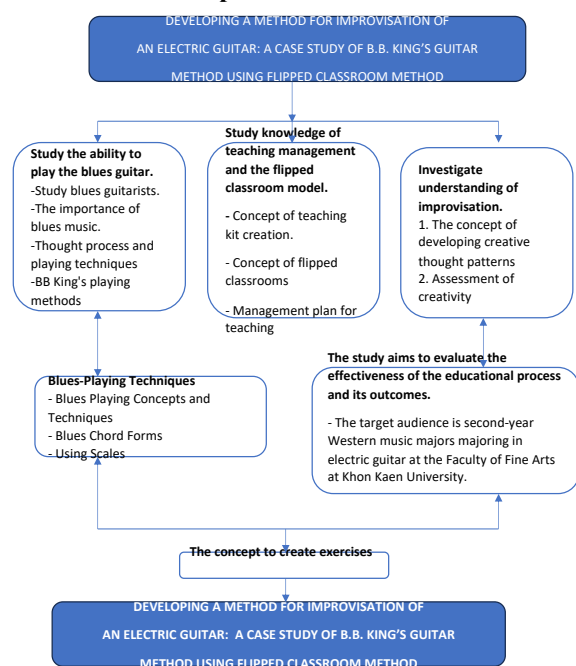


Figure 1. Research Conceptual Framework

6. Research Methodology

The research on "Development of Electric Guitar Improvisation Method: A Case Study of BB

King's Guitar Playing Method" by structuring learning activities based on the Flipped Classroom Concept" was conducted using quantitative research methods. Furthermore, there were ways of data collection that led to data analysis, producing research tools, and developing various teaching kits for usage in online and offline media forms, as follows:

6.1 Preparation Stage: The researchers reviewed the literature based on records and associated studies. After reviewing the literature and related research on knowledge, history, and background from both the Flipped Classroom Concept and BB King's Electric Guitar Improvisation Method, the researcher investigated the suitability of the electric guitar learning curriculum for selecting the experimental group. The experimental group was chosen by the researcher as second-year undergraduate students in the Western Music major, Guitar, Faculty of Fine Arts, Khon Kaen University, since they were of the proper age to represent the study.

Then, a set of teaching plans was constructed, consisting of 5 learning outcomes, which include the following details: 1) Improvisation, 2) BB King's guitar playing methods and history, 3) Rock Me Baby, 4) The Thrill Is Gone, and 5) Three O'clock Blues.

After acquiring the informants and teaching plans, the researcher created interview questions for use in the field data gathering procedure. The researcher prepared the questionnaire to be used in the human research ethics test from Khon Kaen University.

6.2 Field data collection in this field study, the researchers conducted informant interviews in numerous places that were appropriate for both location and time. The researcher employed a human ethics-approved questionnaire to interview informants in both formal and informal interviews, record data from field data collecting, and collect audio-visual data.

6.3 Data Management and Analysis. Data from both publications and field investigations were analyzed to ensure consistency with the research objectives and the flipped classroom idea.

7. Discussion

A research investigation on the evolution of electric guitar improvisation methods: a case study of

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BB King's guitar playing technique using the flipped classroom idea to organize learning sessions. This study presents analytical data in a sequential descriptive fashion, including literature and related research, analysis, synthesis, historical context, and events relevant to the analysis in this research. To make it easier to grasp, the study might be organized in the order of the research objectives as follows: 1. Developing electric guitar improvisation methods: a case study of BB King's guitar playing technique by designing learning activities based on the flipped classroom concept; and 2. Electric guitar improvisation methods: a case study of BB King's guitar playing approach using flipped classroom principles to organize learning sessions. The discussion of the study can be presented according the research objectives as follows:

1) To investigate the evolution of electric guitar improvisation approaches through a case study of BB King's guitar-playing method. Improvisation is a popular phrase in jazz music. Improvisation, often known as musical improvisation, is the dynamic performance of music using tricks that are neither rehearsed or determined by the learner's ability. Improvisation is the unexpected creation of a new melody line. Notes are not taken ahead of time, but they may be. To enhance melodic composition fast and efficiently, the performer must practice and learn by doing exercises, listening, and playing. Melodies must be imaginatively and precisely composed, with chords regulating the melody line. The creativity process entails imitating something, making it similar, and then improving it to make it unique (Damrongsiri et al., 2022; Ligon, 1999; Bangbon et al., 2023).

Composing music is inspired by the sound of music that the composer has heard via many senses, as well as the sound of music that is loud in our brains, which is generated through imagination. By writing out notes as a symbol, the composer can record the sound he has envisaged. Composing music is thus the act of capturing perceptions of the real world, merging them with imagination, and filtering them into the recording of musical notes, which is a type of language. Musical notes are considered a symbolic system.

Musical compositions are a third domain that emerges from the artist's imagination, in which the artist occasionally develops another persona or story. Blues music has its own distinctive accent. It began

in America. Historically, blues music included a mournful, tragic tune that tugged at the listener's emotions. It reflected black Americans' disappointment, depression, and frustration via their music. The problem stemmed from oppression, racism, the working class, and the living conditions of black people who were once slaves. It is music that has been consistently created from 1600 (Thamlangka, 2021).

Blues were extremely popular in the early twentieth century. The music takes the form of singing and accompaniment with a sorrowful tinge. The blues structure has been modified and developed into various styles such as Ragtime, Swing, Bebop or Bop or Rebob, Cool Jazz, Soul Jazz, Modal Jazz, Free Jazz, Fusion, Smooth Jazz, and so on

B.B. King's full name is Riley B. King. He was born on September 16, 1925, in Mississippi, USA. He has enjoyed music since he was a child. At the age of 12, he received his first guitar. After that, B.B. King began performing music in a variety of venues, including churches, nightclubs, and bars. His preferred kind of music was blues. When B.B. King was offered the opportunity to run Sport Radio for 10 minutes at a radio station, it marked a watershed moment in his life. The achievements he achieved helped B.B. King's reputation gain traction among fans. The Thrill Is Gone, Three O' Clock Blues, and All Over Again are among B.B. King's best-known works. He had a beloved black guitar called Lucille that he utilized at every show. Lucille got her name after a fire broke out in the shop where he was playing. The fire did not spread to the entire business. B.B. King appeared but quickly regretted that he had forgotten to bring his favorite guitar. When he remembered, he dashed back into the shop to retrieve his favorite guitar. The fire was caused by a fight between two young guys over a woman. The woman's name was Lucille. B.B. King was influenced by T-Bone Walker and jazz guitarist Django Reinhardt, particularly the method of sliding the strings, which involved moving the guitar up and down the strings with a metal rod. B.B. King discovered that he was not particularly skilled at playing the guitar. However, he could achieve the same sound by "pushing" the guitar. And that is the trick that became B.B. King's identification or signature, which has since become legendary. Today, B.B. King's string-pushing is a great exercise for both beginner and expert guitarists. When studying the sound of B.B.

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King's music, it is clear that he used sounds that were popular in his day to produce a pleasing sound. BB King's attractive note arrangement may convey the stories, anguish, emotions, and sensations of blues music from his own life. This is in line with When music is structured or presented in an appropriate position, both culturally and intellectually, to create power and the ability to communicate entirely, it has the potential to excite people's emotions and perceptions. And the intricate complexity of music's arrangement in that place and time has meaning in multiple levels (Intarakaew & Pikulsri, 2020).

2) To create electric guitar improvisation approaches by using a case study of BB King's guitar playing style, and organizing learning activities through the flipped classroom concept. The data gathered from the data group can be summarized as follows: Reading notes is crucial for improvisation as it helps master worldwide music theory, including keys, scales, rhythms, note values, symbols, chord progressions, pauses, and musical sections. It is useful for quickly finding notes in chords for easy analysis. Learners should understand the basic scales of Major, Minor, Harmonic minor, Apegio, and Pentatonic in order to see the big picture for further progress in electric guitar improvisation or training that can help them develop their skills. Learners should learn Scale 1-2 Octave in the scales Major, Minor, Harmonic Minor, Pentatonic Minor, Blue Scale, and Dominant 7, all of which are important for improvisation. The main thing to remember when practicing Scales is that students should be able to chase Scales all the way down the guitar neck. Fluently When the learner has obtained knowledge from the review, the teacher allows him or her to employ several scales to construct a melody using the scale chasing form. The strings are pushed by a particular blues song melody. The pupil must push the strings to match the tones. Push the strings to match the notes, like a half-tone or a full tone. It is a finger strength exercise that involves pushing the strings in sync with the music. However, the worth of training is judged by listening to music or learning through songs, chosen musicians, and musical styles, such as rehearsing B.B. King's songs, which frequently employ odd string shaking techniques. B.B. King emphasizes progressive and consistent string shaking, therefore performing phrase or sentence formation tasks for improvisation, such as creating from Scale or Apegio, will aid enhance skills and add color to

practice to avoid boredom. After that, the improvisation results were measured and evaluated before to studying. The teacher can evaluate the improvisation assessment measure by having the learner construct a solo in the song for four choruses. How did they employ the chord tones to improvise during the four choruses? Was the rhythm of using notes, correct? Students may be asked to determine finger patterns for improvisation or for systematic purposes utilizing a Rating Scale assessment criteria table, such as: How many songs can students play if they only have four? Are all four tracks full of melodies? Check their playing ability. Alternatively, pupils in the classroom may be asked to draw lots to improvise in pairs.

When the data set from the interview was obtained, the researchers analyzed and synthesized the data to create a learning management plan, emphasizing the interview as the main factor to organize learning with student participation by improvising the electric guitar, a case study of BB King's guitar playing method, by organizing learning activities according to the flipped classroom concept, created for music teachers in the second-year Bachelor of Music program in Wester. The courses in teachings are as follows:

1. Improvisation.
 - 1.1 The Definition of Improvisation and Blues
 - 1.2 Basic scale.
2. BB King's guitar playing techniques.
 - 2.1 BB King's History
 - 2.2 BB King's Guitar Playing Concepts and Techniques
 - 2.3 BB King's use of concepts and techniques Used for improvisation.
 - 2.3.1 BB KING BOX
 - 2.3.2 Vibrato.
 - 2.3.3 Improvisation Phrase Division.
 - 2.3.4 Root Note.
 - 2.3.5 String Push.
3. Improvisation in Rock Me Baby
 - 3.1 Rock Me Baby Intro Training
 - 3.2 Rock My Baby Improvisation Training
4. Improvisation of The Thrill Is Gone
 - 4.1 The Thrill Is Gone Introduction Training
 - 4.2 The Thrill Has Gone Improvisation Training
5. Improvisation of Three O'clock Blues.
 - 5.1 Three O'clock Blues Introduction Training

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5.2 Three O'clock Blues Improvisation Training

After creating a set of teaching plans with five learning outcomes and implementing them in the experimental group, it was discovered that developing the electric guitar improvisation method, a case study of BB King's guitar playing method, by organizing learning activities according to the flipped classroom concept, was effective at 82.86/84.76, which was higher than the set criteria of 80/80. In addition, while assessing the findings of the behavioral record form of teaching management utilizing the flipped classroom teaching technique for the experimental group of 7 persons, the overall level was extremely good ($\bar{x} = 601.43$). The students were pleased with the construction of the electric guitar improvisation approach, a case study of BB King's guitar playing technique, which was organized using the flipped classroom idea. The bulk of responders to the satisfaction questionnaire were males (90%), with females accounting for 10%. It was also discovered that the majority of questionnaire respondents (90%) connected to the Internet via mobile phones, with home internet accounting for 10%. Overall satisfaction was high ($\bar{x} = 4.83$, S.D. = 0.16), supporting the research premise. Each aspect might be ranked in the following order: The feature of the teacher's role was at the greatest level in the first rank ($\bar{x} = 4.90$, S.D. = 0.07), followed by the aspect of learning benefits at the second highest level ($\bar{x} = 4.88$, S.D. = 0.13). The student's role in flipped classroom learning was rated third highest ($\bar{x} = 4.86$, S.D. = 0.11). Media and instructional management systems ranked fourth highest ($\bar{x} = 4.61$, S.D. = 0.42).

8. Conclusion

The students who proposed using the Google Classroom site experienced difficulty uploading video files to submit assignments. The pupils suggested learning chords for each song so that they could apply them in practice. However, the students' perceptions of the teaching and learning process that produced the way of improvising electric guitar, a case study of BB King's guitar playing style, were discovered by scheduling learning activities according to the flipped classroom concept. The first difficulty was that the students were impressed with the teacher because flipped classroom learning was a new way that they had recently learnt, in addition to

gaining practical electric guitar abilities. Learning with the Google Classroom platform is a tough teaching and learning experience that necessitates accountability. The pupils were required to do their assignment by watching movies from home and reflecting on the outcomes in the classroom.

The second issue was that students practiced learning about BB King, whether it was through videos of his biography or improvisation training in his songs. It is a body of information that students have been asked to use and reflect on with their classmates in order to learn together. Some classmates who are slow to learn may seek advice from classmates who are faster to learn and will teach one other until they grasp. The teacher's only responsibility is to give initial recommendations. The third issue, learners can apply BB King's improvisation, the usage of B.B. KING BOX, in real life, many of the students in the class are members of KKU Big Band. In the big band practice, learners applied the skills and knowledge gained from the teaching process that developed the method of improvising electric guitar, a case study of BB King's guitar playing method, by organizing learning activities around the flipped classroom concept, to effectively apply to group improvisation.

Following participation in learning activities based on the flipped classroom idea, the effectiveness index was 0.68, which is in line with the findings of the data analysis. This means that the development of the electric guitar improvisation method, a case study of BB King's guitar playing method, and the organization of learning activities based on the flipped classroom concept helped students develop a process of increasing their knowledge and skills by 0.68 or 68 percent because the researcher combined BB King's knowledge with the flipped classroom learning, allowing students to be evaluated on a regular basis and allowing them to analyze and review using their own knowledge—an important process. Whenever learners were evaluated in class, they saw how much they had grown. Overall, students' responsibility for learning in the flipped classroom helped them practice systematic learning and time management skills, as evidenced by the very good behavioral record of teaching and learning management evaluation score ($\bar{x} = 601.43$) for the flipped classroom teaching method. With the help of the flipped classroom method, students who learn more slowly than their peers can watch the teacher-

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explained videos and repeat them until they understand the topic more easily. Students and classmates discuss the outcomes of the homework that was assigned by the teacher to do at home and discuss in class on the day that classes are planned, allowing friends who learn more rapidly to instruct and clarify things to friends who learn more slowly, therefore accelerating the learning process for all students.

Recommendations

1. Using the Google Classroom platform, educators should produce instructional materials that offer clear, succinct information. Each video, including the production of online documents (PDF) in accordance with teaching and learning, should not be longer than 20 minutes in order to ensure comprehensiveness and ease of comprehension for students.

2. By planning learning activities based on the flipped classroom concept, knowledge about the evolution of electric guitar improvisation techniques, including a case study of BB King's guitar playing style, should be studied. This knowledge can also be applied to teaching and learning in conjunction with learning in other subjects, or it can be combined with other skills or concepts at other grade levels.

3. It is advised that students upload VDO files through their YouTube channel and attach the YouTube link to Google Classroom when using the Google Classroom platform for teaching and learning. This is especially useful if the Google Classroom platform is unstable.

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