

FOSTERING CRITICAL THINKING SKILLS IN EFL UNIVERSITY STUDENTS DURING LISTENING COMPREHENSION USING DIGITAL TEACHING-MATERIALS: A CASE STUDY

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Abstracts: Understanding listening materials is perceived as the most challenging aspect of language learning by many EFL University students. They face difficulties in recognizing English words, phrases, pronunciation, vocabulary, and sentence complexity, compounded by the rapid speech rate of native speakers. Addressing these challenges, this study explores the use of digital materials that require students to analyse, evaluate and make informed judgments based on listening content, thereby nurturing higher order thinking skills. A qualitative case study was conducted, involving the collection of comprehensive data from course syllabi, lecturers and students. A total of sixty-one university students enrolled intermediate listening course, along with two listening lecturers, were actively engaged to enrich the data. The results shows that the use of digital materials, particularly the e-module, has proven to be effective. Students' responses indicate that the e-module effectively facilitates critical thinking, improves reflective ability, and encourages motivation. Moreover, the e-module features, including well-defined learning outcomes, authentic materials, scaffolded learning activities, engaging multimedia elements, collaborative features, and opportunities for reflection and self-assessment, collectively contribute to foster critical thinking skills and motivation among students.

Keywords: *case study; critical thinking; digital teaching materials; e-module; EFL University students; listening comprehension.*

INTRODUCTION

In the context of English as a Foreign Language (EFL) instruction, listening skills hold significant urgency and importance compared to other language skills (Lantos, 2016; Zhang et al., 2020). Listening skills become the foundation of effective communication. It is due to the fact that when someone listens, here is a process of grasping information from speaker to the listener. Students' listening skills in English will also affect their speaking and communication skills (Harmer, 2015; Maulina et al., 2022).

While all language skills (listening, speaking, reading, and writing) are interconnected and important, the urgency of developing listening skills in the EFL context stems from its

foundational role in communication, real-time interactions, exposure to authentic language, comprehension and learning, language production, and cultural understanding (Choi et al., 2021; Deroey, 2018). Emphasizing listening skills consistently in EFL instruction helps learners build a strong language foundation and equips them to engage effectively in various language contexts.

Listening as a fundamental skill closely related to understanding, but it may not inherently involve critical thinking. There is significant difference of listening to hearing (Leonard, 2019; Zhang et al., 2020). Hearing refers to ears-receiving to the sound of words and it is a physical process that might occur as long as a

person does not have a hearing problem. Rather listening requires more focus and effort, both mentally and physically. Thus, listening does not only involve physical hearing but also encourages students to go beyond surface level comprehension and get deeper into the meaning and implications of what they hear (Dwee et al., 2016; Santos Meneses, 2020). Therefore, appropriate teaching materials are needed to facilitate lecturers in listening courses that put more emphasis on students' critical thinking skills.

Highlighting on the importance of developing teaching materials which not only focus on improving listening comprehension but also foster critical thinking skills among students, this study shed lights on the use of digital listening materials on facilitating students' critical thinking.

Digital materials, in this case refers to electronic course module (e-module) for listening skills. It is designed to include prompts and activities that encourage students to think critically, analyse different perspectives and apply their knowledge in meaningful ways. These materials can play a significant role in addressing students' challenges of 21st century skill learning needs and more interactive as well as dynamic learning experience (DiBenedetto, 2019; Haug & Mork, 2021). Various multimedia elements, such as videos, audio recordings and interactive exercises can be integrated to provide learners with authentic and engaging listening materials (Hughes-Roberts et al., 2020).

Another factor that encourages the need to develop digital teaching-materials for listening courses is a number of research studies which state that 43% of language learners thought that understanding listening material is the most difficult when compared to other language skills (Egamnazarova & Mukhamedova, 2021; Ma'fiyah, I; Sitoresmi, U; Yulianto, 2021; Yeldham & Gao, 2021). Most students find it difficult to recognize English words, phrases or sentences, limitations in pronunciation, lack of vocabulary, complexity of sentences and coupled with the native speakers' speech rate which is too fast which then results in a lack of understanding regarding the material presented by the lecturer. By incorporating materials that require students to analyze, evaluate and make informed judgements based on the listening content, it enables to promote higher-order thinking skills and enhance their overall language proficiency (Saeedakhtar et al., 2021). Further, it can encourage students to think critically about the information presented, draw connections, infer meaning and engage in

deeper levels of comprehension (Din, 2020; Tan, 2019).

In order to stimulate students' critical thinking, a listening e-module was designed for case-based collaborative activities within a mobile application with its strong emphasize on meticulously structuring topics, sequencing content, elaborating on tasks and provide scaffolding support. The primary objective is to enhance students' comprehension and effective processing real-life information. The focus of this article therefore, to describe the e-module's key features and to examine the response of students toward this innovative learning materials.

METHOD

This study used a qualitative case study design to thoroughly explore a phenomenon within a real life context (Alison & Susan, 2021; Lazaraton, 2016; Yin, 2018). The study focused on the use of digital materials in the context of listening classes. Specifically, it seeks to understand how the use of e-module stimulates critical thinking among students.

The study involved sixty one students, particularly those in the third semester who are enrolled in intermediate listening classes. The students' opinion and perception regarding the use of e-module are central to the research findings. The research utilized multiple data collection methods, including interviews with two out of six lecturers, classroom observation and pro-long engagement. Additionally, an open-ended questionnaire was shared with students to gather their views on their needs and interests in listening materials.

To enhance validity and reliability of the findings, data triangulation is carried out. This involves member checks, multiple investigators, and long-term observations in order to strengthen the validity and reliability of the findings (Lentillon-kaestner et al., 2018; Naong et al., 2018; Yin, 2018).

Ensuring for research ethical standards, The researcher has adopted the following procedures: (1) obtaining approval from the research site; (2) securing approval from the colleagues and institution, where classroom observation will take place; (3) ensuring students' privacy, anonymity and confidentiality during the study; and (4) conducting participatory observation in the classroom, to create a comfortable and natural environment for the students.

RESULTS AND DISCUSSION

Students' responses to the use of -module

A semi-structured interview and an open-ended questionnaire were conducted to get further information about students' experiences. This findings were used as a research instrument to collect qualitative information on how well the e-module stimulates students' critical thinking in listening class.

The three major components as students' positive responds explained in the following sections.

Effective to facilitate critical thinking

One advantage obtained by the students participated in this study is that e-module can facilitate them in exercising their critical thinking. A significant proportion of participants (77%) agreed that the exercises and question types in the e-module helped to guide them in analysing, interpreting, and stimulating critical thinking. This suggest that e-module played a role in promoting critical thinking skills among the students.

Some students thought that the task that allowed them to carefully analyse and evaluate a speaker's intention and arguments encouraged

them to think a little bit more deeply about particular topics. The following statements were quoted from recorded interview.

"The task helps me to not only understand the meaning of word, or sentences by the speaker, but also grasping the speaker's idea, intention and feeling." (1)

"It helps me improve my mind to think more about what actually meant by the speakers" (2)

"The questions in the task, when we are watching or listening video from an inspiring person, is not only about translating meaning or vocab, but relating our understanding and opinion, summarizing and giving conclusion." (3)

Critical thinking is indeed an attribute that encompasses a range of skills and involves a combination of attitudes (Domínguez Romero & Bobkina, 2021; Dwee et al., 2016). The students responses shown above clearly indicate several point that represent critical thinking, i.e. thinking reasonably to evaluate arguments, draw conclusion and presenting a new information (Santos Meneses, 2020).

9. Do the exercises and types of questions presented in the listening materials guide you towards analytical, interpretive, and problem-solving skills?
61 responses

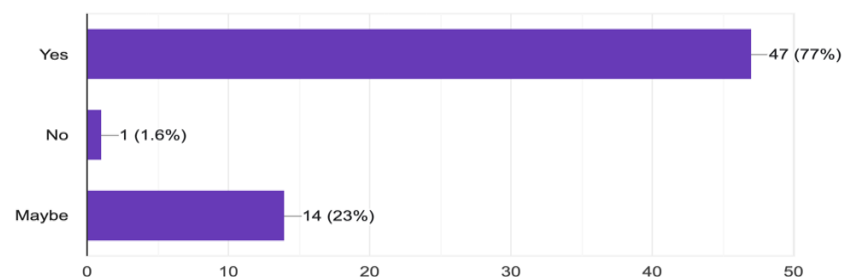


Figure 1. Students' response regarding tasks-promoted critical thinking

Improve reflective ability and curiosity

One of critical thinking indicators is the ability of look at certain topics reflectively or able to think reflectively to raise curiosity (Din, 2020; Hughes et al., 2018; Santos Meneses, 2020). In line with this, student's responses about the use of picture and guided questions helps her to improve ability to reflect on issues being discussed. Besides, it was also observed through this study that listening activities challenged the students' curiosity.

"..picture, interesting colour, and questions given in the beginning, makes me understand the content of what I listen, and how I reflect it on my life." (4)

"Lecturer's presentation about the content and how the questions relates to our lives, make me curious of what next to be listened." (5)

The perceived importance of understanding obtained through 'deep' processing of knowledge raises curiosity in learning more (Harman et al., 2016; Mahdi et al., 2020). This findings on students' curiosity and ability to reflect indicate that their curiosity arose as a result of deep processing information that occurred during their reflective practices in doing the listening task.

Scaffold critical thinking abilities

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The online exercises and multimedia content encouraged students to actively analyse and synthesize information from the listening tasks. Some students responses, "I am happy when the materials are colourful and interactive, because it is not boring and motivates me to understand each sentences from the speakers".

While other student was appreciating on lecturer's thought-provoking questions in the beginning of the lesson, she says, "lecturer always gives questions in the beginning, so we are paying attention and think to answer that questions". From the students' feedback, the lecturers' thought provoking questions at every transition of materials engage students' attention and encourage them to think about and respond to the task given. Figure 2 indicates that 41% of the participants agreed that it was helpful in enhancing their understanding. Incorporating thought-provoking questions at the outset of a lesson is a pedagogical technique often used to stimulate critical thinking and best prepare students to learn the material (Lincoln & Kearney, 2019; Umam & Fauziah, 2022)

Furthermore, this finding on students motivation also highlighted how crucial it is to

scaffold their critical thinking abilities. When students were asking of how the listening materials impact their motivation to learn and improve their listening skills, the majority of students, approximately 54.1% expressed that listening materials were highly motivating for them. Another substantial portion of students, around 36.1% found that listening material be somewhat motivating. While their motivation may not have been as strong as the first group, they still acknowledged that the materials had a positive impact on their motivation and skill improvement. Further, none of the students choose the option "not motivating at all", indicating that all respondents in the study found some level of motivation from the listening materials. These responses suggest that the design and content of the listening materials, along with the instructional approaches, are successful in fostering motivation among students. Such motivation is essential for effective learning and skill enhancement, as it encourages active participation and a positive learning experience (Osman & Warner, 2020; Zhang et al., 2020)

19. The lecturer always provide guided questions at every transition of materials or tasks for improving students' understanding and their ability ...ct on issues being discussed in listening exercises
61 responses

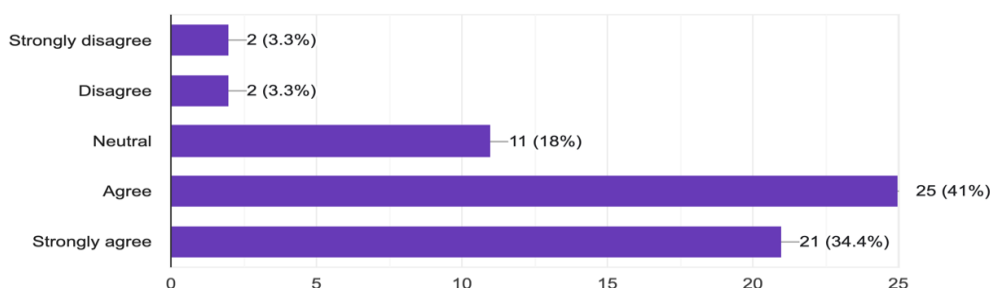


Figure 2. Students' response to lecturers' guided questions

The key features of the e-module

Here are some characteristics of the e-module for listening that is designed to promote students critical thinking.

First, the e-module clearly states the intended learning outcomes (Table 1). It is divided into four Course Learning Objectives. Those are at the end of the course, students are expected to (1) be able to understand spoken text from various topics, search main ideas and detailed information from spoken text, paraphrase, interpret the

expression according to the context, explain the relationship between the parts of information, analyse, synthesize, summarize, evaluate and listen critically; (2) be able to listen to sentences actively which contains sound confusion, multi-meaning words, questions and responses; (3) be able to interpret sentences containing Idioms, certain functional expressions and exercises, taking notes, as well as (4) be able to listen positively through the use of interesting and varied teaching materials.

Table 1. *Intended course learning objectives*

Learning Outcomes	1. Understanding lectures in various topics/fields of study, and taking notes for the key information and important detail. 2. Enabling students to do active listening related with sentences with sound confusions, multiple- meaning words, questions and responses.
Goals	Hard Skills: Enabling students in listening to idiomatic expressions, specific functional expressions. Soft Skills: This course also aims to enhance students' listening habits and positive attitude towards listening through the use of varied and interesting learning materials and activities.
Objectives	Hard Skills: Understanding longer conversations and talks, getting the gist of information, selecting the important information Soft skills: Students are also expected to nurture good behaviour and skills in learning individually and/or in pairs/small groups.

Second, e-module incorporates authentic listening materials that reflects real-life contexts, situation and source. These reflected either on the topics, speech styles or the variety of accents. These following are the topics adjusted to students' needs and interest (Table 2).

The choice of topics in the e-module was designed to match the students' needs and interests. A significant portion of students, around 54.1% found the use of interesting topics to be highly motivating. This motivation (as shown in Figure 3) likely contributes to their improved listening skills.

6. How do interesting listening materials and topics impact your motivation to learn and improve your listening skills?

61 responses

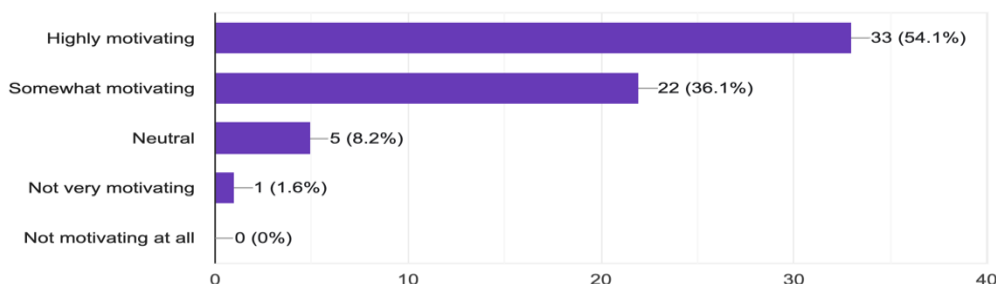


Figure 3. Students' responds on how interesting topics impact students' motivation

Third characteristic is scaffolded learning activities. This e-module includes a series of scaffolded learning activities that progressively build students' critical thinking. These activities are structured into three stages, including a presentation or pre-listening task to activate prior knowledge, a during listening or task delivery phase, and a post listening or reflection and evaluation (as presented in Picture 1). In terms of students' feedback on these task and activities,

majority students, specifically 52.5% expressed high satisfaction by selecting "very satisfied", while remaining 47.5% choose "satisfied". Notably, none of students reported dissatisfaction with the materials' task and activities. This positive response suggests that the topic and content of the materials were engaging and effectively promoted students' motivation and critical thinking skills.

Table of Content	
Preface	i
Table of Content	iii
Unit 1. Specific Types of Listening	1
Presentation	2
Task 1. Discuss with your partner	4
Task 2. Listen to a talk	5
Unit 2. Note Taking Practice	7
Presentation	8
Task 1. Listen to a team discussion	10
Task 2. Listen to a psychology class	12
Task 3. Listen to a radio interview	14
Task 4. Listen to the Lecture 1	15
Task 5. Listen to a sociology professor	16
Task 6. Listen to the lecture 2	17
Task 7. Think Pair and Share	17
Reflect and Evaluate	18
Unit 3. Understanding Short Conversation and Dialogues	19
Presentation	20
Task 1. Match the vocabulary	22
Task 2. Listen to a job interview	23
Task 3. Listen to a radio interview	24
Task 4. Listen once more	25
Reflect and Evaluate	26
Unit 4. Listening to a Longer Talk	27
Task 1. Listen to different language	28
Task 2. Understanding a longer talk	28
Task 3. Listen to a longer talk	29
Task 4. Explain from a longer talk	29
Task 5. Match the vocabularies	30
Task 6. Complete the notes	30
Task 7. Work with partner	32
Task 8. Think Pair and Share	32
Reflect and Evaluate	33
References	34

Figure 4. E-module table of content

Fourth, *engaging multimedia elements*. The e-module utilizes some multimedia elements such as audio, interactive exercise and visuals to enhance students' engagement and understanding. These provide multiple modes of information presentation, accommodate different learning style and stimulate critical thinking. Moreover, students found using digital material to be highly

convenient. Based on various students' responses, it is apparent that a significant majority of students express a preference for using digital sources as their primary teaching materials over traditional textbooks. It due to the ease of accessibility, the ability to access these materials at any time and from any location, and the flexibility.

Task 3. Listen to a radio interview
Listen to a radio interview. Fill in the diagram.

Click or Scan the following QR Code to Listen a Radio Interview

Positive Psychology

Problem: _____

Solution 1: _____

Solution 2: _____

1. What is the main topic of the radio interview?
2. What does work-life balance in the current working world being discussed in the interview?
3. Complete the summary below.

Well, in the more traditional workplaces, people's working lives and their private lives are, or were, _____. People often work from nine in the morning until five or six in the evening. People sometimes _____ and _____. This is called working overtime. OK, and what else? Well, in these environments it _____ at the weekend or while they're on holiday. They can clearly separate their working lives and their _____. And the evenings, weekends and holidays are free to _____ of life, such as hobbies, interests, sports, spending time with the family and friends, and so on. It's important and healthy not _____ right?

Task 6. Listen to the lecture 2
Read and understand the vocabularies. Then listen to the lecture and take notes. Using your notes, answer the questions that follow.

Click or Scan the following QR Code to Listen the Lecture

Company	Expansion	Job	CI/
Department	Role	Review	B to B
B to C	L&D	Role	Feedback

Task 7. Think Pair and Share
After you listen to a dialogue about Job Interview: Task 6, discuss with your partner about these questions? share your opinion on the answers with your classmates.

1. What did the interviewer explain to Maria about the company's expansion?
2. What did the interviewer think about Maria's CV?
3. What did Maria do four years ago?
4. Why does Maria want to change jobs?
5. Rewrite the educational history that Maria told the interviewer?
6. What did Maria ask the interviewer?

Reflect and Evaluate

Answer these reflective and evaluative questions to guide you, assessing your note-taking practices during UNIT 2, and further it will help you to identify areas of strength and areas for improvement.

1. What note-taking strategies did you find most effective during the chapter? Why did these strategies work well for you?
2. Were there any specific challenges you encountered while trying to take notes during this chapter? How did you address or overcome these challenges?
3. Consider the types of information you prioritized in your notes, such as main points, supporting details, or keywords. Did your note-taking strategy help you focus on the most important information? Why or why not?
4. Did your note-taking practice enhance your ability to understand the content, or did it sometimes feel distracting? How can you strike a balance between effective note-taking and active listening?

Figure 5. Sample of multimedia engagement, collaborative-case task, reflection and self-assessment

Fifth, the e-module facilitate collaboration and communication among students. One notable feature is the "Think and Pairs" Session, where students' critical thinking are stimulated as they engage in discussions, exchange ideas, negotiate the meaning of concepts and provide constructive feedback on their classmates' viewpoints. It's worth noting that a majority of students, approximately 52.5%, agreed that the overall exercises effectively promoted collaboration and teamwork among them. This

reflects the success of e-module in fostering these important skills and encouraging interaction among students.

Sixth characteristics is, reflection and self-assessment. The e-module includes the opportunities for students to reflect on their learning, self-assess their critical thinking, and set goals for improvement. This reflection practice as encourage students to monitor their learning progress, and make adjustment.

10. Are the listening exercises designed to promote collaboration and teamwork?

61 responses

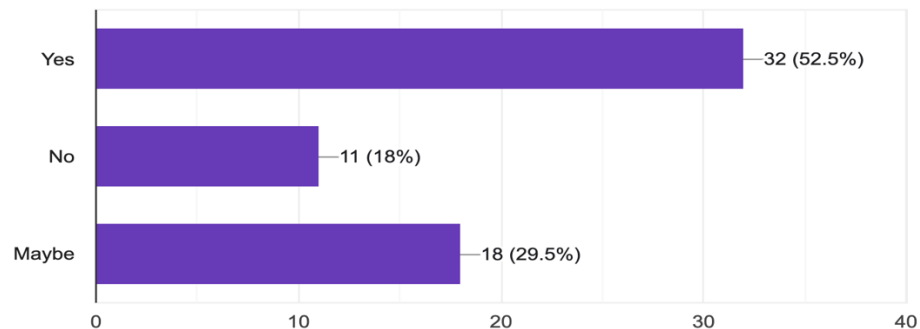


Figure 6. Students' responds on how the task-promoted collaboration and team work

CONCLUSION

This study highlights the crucial role of listening skills in EFL instruction and the necessity of materials that foster critical thinking among students. The use of digital listening materials, particularly the e-module designed to stimulate critical thinking, has proven to be effective. Students' responses indicate that the e-module effectively facilitates critical thinking, improves reflective ability, and encourages motivation. Moreover, the e-module's key features, including clear learning outcomes, authentic listening materials, scaffolded learning activities, engaging multimedia elements, collaborative features, and opportunities for reflection and self-assessment, collectively contribute to enhanced critical thinking skills and motivation among students.

As English language proficiency is a key asset in the 21st century, such innovative materials play a central role in equipping learners to excel in various language contexts.

The study concludes that the development of digital teaching materials for listening courses with a focus on critical thinking skills is highly beneficial for students' language learning. It is not only addresses the challenges associated with listening but also encourages deeper comprehension and engagement with the language. This research paves the way for a more comprehensive integration of digital materials in EFL instruction to enhance students' critical thinking skills, ultimately fostering more effective language communication.

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