Attitudes and responsibilities of students against online learning

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Abstract
This research attempts to determine how student attitudes and responsibilities towards online learning vary according to ability and education level. Attitudes towards educators, learning processes, and learning materials are all quantifiable. Individuals’ initial knowledge is determined by their ability to use information technology, their willingness to use it, and their perceptions of computer and internet reliability. This research focuses on undergraduate, masters, and doctoral students at Universitas Negeri Surabaya, which is located in Surabaya, East Java, Indonesia. This research utilized a non-experimental quantitative design. This research used questionnaires serving as the data collection instrument. The findings indicated that attitudes towards online learning varied according to one’s initial level of competence and education. Despite this, there was no gender disparity in students’ attitudes towards online learning. The degree to which students are responsible for online learning varies according to their baseline competence and education level.

Keywords: attitude; online learning; responsibility; students; university.

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1. Introduction

As we enter the fourth industrial revolution, all facets of life are connected to the Internet, allowing us rapid access to all information regardless of place, distance, or time constraints (Alotumi, 2021; Ding & Zhang, 2018; Tuckel & Pok-Carabalona 2023). These changes have affected a variety of disciplines, including education. Historically, education was viewed as a broadcasting activity, with educators functioning as the information source and students as the message recipients. Nowadays, the learning process is more participatory; educators are not the sole source of information; and students have access to Internet learning materials (Karademir et al., 2021; Rekow, 2020; Al Mamun & Lawrie 2023; Hsu et al., 2022; Taghizadeh & Emam 2023). Online learning resources are available in various formats including text-based resources, e-journals, e-books, and audiovisual resources, such as YouTube and various additional learning tools (Lai et al., 2019; Yoon et al., 2021). As a result of the increase in technological and educational resources, educators must adapt their techniques, methodologies, and learning models to address the challenges of education in the digital era, as the traditional learning model was occasionally deemed irrelevant to the learning techniques and habits of today’s students, who exhibit marked differences from previous generations (Coman et al., 2020; Sert & Boynueğri, 2017).

The teacher’s role enhances the standard of the educational system by focusing on the optimal development of students’ attitudes, abilities, and potential (Singh et al., 2021; Vanduhe et al., 2020). Authentic assessment can help teachers develop the skills necessary to serve as role models for students’ attitude development throughout the learning process. Additionally, this scanner can scan and even check children’s characteristics. Authentic assessment can help teachers develop the skills necessary to serve as role models for students’ attitude development throughout the learning process. (Hardika et al., 2021; Kusaeri, 2019). Effective instruction is necessary to protect future generations from the pernicious effects of the media and other external sources, which are advancing at a breakneck pace in the modern era and must emphasize not intellectual abilities and aspects of the intellect, behavior, and character (Dewi & Kareviati, 2021; Hong et al., 2021). As a higher education institution whose graduates are expected to play a strategic role in social life, higher education is expected to maintain its graduates’ attitude and responsibility to continuously improve quality, learn, and develop their capacity to adapt to civilization’s development in the face of global competition (Johnson et al., 2021; Lim et al., 2020).

Universitas Negeri Surabaya has established itself as a leader in tertiary education by launching an online learning system called Vi-learn to supplement lectures (Suprapto et al., 2021; Wibawa et al., 2021). Vi-learn is connected to Indonesia’s national online learning system. Online education is more effective when students have a positive attitude (Hsu et al., 2021; Winarti et al., 2021). A positive attitude approaches admiring, accepting, and anticipating the presence of specific objects with admiration, acceptance, and anticipation. A positive attitude is the outward embodiment of a mind that is receptive to positive influences. A positive attitude is generally characterized by activities of happiness, creativity, and optimism (Astuti et al., 2021; Permana & Nourmavita, 2017). A positive attitude is the state of mind that an individual maintains continuously and consciously to avoid deviating from their focus on something negative. Someone who consistently thinks positively understands that he will quickly revert to positive thinking if he has been thinking negatively.
Positive attitudes can be quantified in a variety of ways, including attitudes towards learning materials, lecturers, learning processes, and standards governing the use of learning materials (Getie, 2020; Manurung & Panggabean, 2020). To begin, an optimistic attitude towards educational resources is necessary. Students must have a positive attitude towards the studied material (Hsu et al., 2021; Yin et al., 2020). Students’ enthusiasm for studying will increase this positive attitude and they will be more motivated to assist them in comprehending new material. Second, an empathetic attitude towards lecturers is required. Students must cultivate a genuine towards lecturers (Chao et al., 2017; Vanduhe et al., 2020). Students who harbor negative feelings towards lecturers are more likely to dismiss the lecturer’s explanations. As a result, pupils who have negative attitudes towards their classmates will struggle to comprehend the lecturer’s description of the learning subject. Thirdly, an optimistic view of the educational process is required. Students must have an optimistic disposition throughout the process of learning. (Daumiller et al., 2021; Yue et al., 2021). The learning process comprises several components, including instructional strategies, the methodology learning environment, and the instructional techniques used (Aristovnik et al., 2020; Duque et al., 2020). A pleasant, exciting, and enjoyable learning environment can assist students in becoming more motivated; fourth, an optimistic view of content-related learning standards is required. Additionally, students must demonstrate a positive attitude toward specific social issues (Johnson et al., 2021; Moskowitz & Dewaele, 2021).

The online learning environment which became more common after the Covid 19 is anticipated to assist and meet the learning demands of pupils during industrial Revolution 4.0, enabling students to study from any location and enhancing communication, interaction, and online engagement (Alotumi, 2021; O’Doherty et al., 2018; Assi & Rashtchi 2022; Farahian et al., 2022; Buttimer et al., 2022). Online learning is also expected to foster responsibility as a component of higher education's character education, including how students are accountable for meeting task deadlines specified in mutually agreed-upon project schedules, for not plagiarizing works/ideas when creating visual media, and for a variety of other indicators of student accountability related to the lectures they deliver (Ilgaz, 2019; Reinhold et al., 2021). The importance of responsibility states that the ease with which digital content can be duplicated on the Internet continues to generate ethical and legal cases and debates (Hidayah et al., 2021; Liu & Chen, 2018). The point is that, in addition to learning how to use new technology effectively, educational technologists must also develop an ethical understanding of how to use these technologies as part of their responsibility for learning (Fernandez & Shaw, 2020; Garbe et al., 2020; Müller & Wulf, 2020). Additionally, the researcher’s experience as a course instructor demonstrates that students frequently struggle to engage in the learning process to assume responsibility.

One of the 18 characteristic traits taught in character education is responsible behavior. Numerous critical moral principles must be instilled in students to assist them in their social learning process, one of which is responsibility (Gonda et al., 2021; Lestiyanawati, 2020). Responsibility is ‘the acceptance of one's actions’. A student's account must be demonstrated to their teacher and parents, and a responsible attitude is required (Tomczyk et al., 2021; Yllana-Prieto et al., 2021). The goal is for each student to comprehend and complete their assignment to the best of their ability to achieve the best result. By and large, beginning capabilities affect attitudes and responsibilities abilities (Kim et al., 2020; Singh et al., 2021). Historically, initial proficiency has been viewed as a critical factor in determining a student’s ability to learn and succeed. Without sufficient prior knowledge, attempting to know anything may result in low-level learning or rote memorization. This learning outcome may
occur when pupils cannot connect new knowledge to their prior knowledge framework (Garad et al., 2021; Osadcha et al., 2020).

According to some sources, each human being is born with two fundamental abilities: declarative knowledge, which refers to students' initial capacity to comprehend something, and procedural knowledge, which relates to students' initial capacity to know how to perform a procedure. Declarative understanding, according to Anderson, is ‘knowing what’, whereas procedural knowledge is ‘knowing how’ (Hailikari et al., 2007; Solehana et al., 2019a). Thus, one could argue that, given the distinct nature of this state of knowledge, the two categories of information should be evaluated using different techniques. Other knowledge and cognitive processes classes are distinguished in Bloom's revised taxonomy. The taxonomy identifies the necessary learning products, namely the types of knowledge that must be classified using mental processes (Brosnan et al., 2020; Macaraan, 2021). A student begins the learning process with no prior knowledge or abilities but rather with prior knowledge and expertise in the subject being studied. Students’ mental models were utilized to store prior knowledge, which was subsequently used to appraise and integrate newly acquired material(Lehmann et al., 2020; Schneider et al., 2018). Numerous earlier research studies have demonstrated that the amount and quality of innate abilities facilitate the acquisition of knowledge and the use of high-level cognitive problem-solving skills (Destino & Cunningham, 2020; Manurung & Panggabean, 2020). Initial skill differences have altered students’ learning outcomes and enabled them to accomplish meaningful learning (Kurniaman & Zufriady, 2019; Purwitaningrum & Prahmana, 2021).

Instructors should consider assessing a student’s initial ability when developing learning strategies before beginning the teaching process. For educators, an individual’s early talents can provide critical insight and predictions into how to design and plan effective learning techniques. Before starting the study period, pupils were given a pre-test to see whether they had previously mastered any or all of the material that will be studied (Csapó & Molnár, 2019; Solehana et al., 2019b). Thus, the initial capability was to compare learning outcomes to the learning process evaluation and generate meaningful student profiles for instructional analysis. The initial proficiency exam can provide self-evaluation data that enable students to become aware of prior knowledge and prepare them for new learning materials that mobilize that prior knowledge (Kim et al., 2020; Theobald, 2021).

1.1. Purpose of study

In this study, the researcher aimed to determine if student ability, education level, and gender affected their views and duties about online learning. This research is very important because we will know several factors that can affect students' attitudes and responsibilities in attending online lectures. This is because, nowadays, learning is carried out online, and in the future, it is also possible that learning will also be carried out online.

2. Materials and Methods

2.1. Data collection instrument

This study employed a cross-sectional quantitative survey. Three criteria were used to evaluate each participant: attitude, accountability, and initial capability. Philosophy was examined on three levels: attitudes toward instructors, the learning process, and instructional materials. Responsibility was determined using three accountability factors: time, participation, and plagiarism.
Simultaneously, the initial capability was evaluated in terms of capabilities, technology use, willingness to use technology, and trust in the reliability of computers and the Internet.

2.2. Participants

This study involved 545 students from Universitas Negeri Surabaya. The subjects are divided into three levels, namely undergraduate, master, and doctoral. The research subjects selected were samples of students from Universitas Negeri Surabaya. Researchers distributed instruments to research subjects using a questionnaire. The questionnaire was created to assess the attitudes and responsibilities of students enrolled in online learning. Researchers used Google Forms in compiling instruments and then distributed them to research subjects.

2.3. Analysis

Instruments obtained from research subjects were analyzed so that they would become the basic data in this study. The data is described by the researcher so that it becomes data that is easy to read and evaluate. The instrument was used to collect data on attitudes, responsibilities, and initial abilities. The questionnaire was based on a 4-point Likert scale with response possibilities ranging from strongly disagree (1) to strongly disagree (4). Data were analyzed using SPSS.

2.4. Ethics

The study employed the right ethical standards to ensure the anonymity of participants while collecting, analyzing, and reporting data. All participants voluntarily participated in the study.

3. Result

3.1. Students' attitudes toward online learning have been seen from their initial abilities

Table 1

Initial Attitude and Ability

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Initial ability</th>
<th>Mean</th>
<th>Std. error</th>
<th>95% Confidence interval</th>
<th>Lower bound</th>
<th>Upper bound</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>High</td>
<td>101.779</td>
<td>.700</td>
<td>100.405</td>
<td>103.153</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>90.291</td>
<td>.713</td>
<td>88.891</td>
<td>91.691</td>
<td></td>
</tr>
</tbody>
</table>

Based on the tests of between-subjects effects, (table 1) which indicate a significance level of 0.000 (<0.05), it can be inferred that there were differences in student attitudes about online learning participation based on beginning ability. Students with strong starting talents exhibited more positive views about online learning (101.779) than those with poor initial abilities (98.981) (90.291).

3.2. Students' attitudes towards online learning have been seen from their level of education

Table 2

Attitude and Education Level

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Educational Level</th>
<th>Mean</th>
<th>Std. error</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Educational Level</td>
<td>Mean</td>
<td>Std. error</td>
</tr>
</tbody>
</table>

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The test criteria demonstrate a significance of 0.002 (<0.05); therefore, it can be inferred that there were differences in the attitudes of students toward online learning based on their educational background (table 2). Students with a doctoral degree have a more positive outlook (98.167) than those with a masters degree (96.264) and those with a bachelor's degree (88.751) (93.674). The attitudes of undergraduates are the weakest compared to those of masters and doctoral students.

### 3.3. Attitude and Gender

**Table 3**

*Gender and Attitude*

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Initial ability</th>
<th>Mean</th>
<th>Std. error</th>
<th>95% Confidence interval</th>
<th>Lower bound</th>
<th>Upper bound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attitude</td>
<td>Male</td>
<td>96.328</td>
<td>.841</td>
<td>94.676</td>
<td>97.980</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>95.741</td>
<td>.657</td>
<td>94.452</td>
<td>97.031</td>
<td></td>
</tr>
</tbody>
</table>

The calculated value of sig. 0.519 (>0.05) indicates that Ho was accepted; hence, it can be stated that there was no gender difference in students’ attitudes towards online learning (table 3).

### 3.4. Students’ responsibility towards online learning has been seen from their initial abilities

**Table 4**

*Responsibility and Initial Ability*

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Initial ability</th>
<th>Mean</th>
<th>Std. error</th>
<th>95% Confidence interval</th>
<th>Lower bound</th>
<th>Upper bound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Responsibility</td>
<td>High</td>
<td>27.735</td>
<td>.244</td>
<td>27.255</td>
<td>28.216</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>24.343</td>
<td>.249</td>
<td>23.854</td>
<td>24.833</td>
<td></td>
</tr>
</tbody>
</table>

Based on the acquired sig. 0.000 (<0.05), it is possible to assume that Ho was rejected or that there was no difference in student responsibility for online learning based on initial ability (table 4). Students with high starting talents (27.735) have a greater sense of responsibility than those with poor initial abilities (24.343).

### 3.5. Students’ responsibility towards online learning has been seen from their level of education

**Table 5**

*Responsibility and Education Level*

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Educational Level</th>
<th>Mean</th>
<th>Std. error</th>
<th>95% Confidence interval</th>
<th>Lower bound</th>
<th>Upper bound</th>
</tr>
</thead>
</table>

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The conclusion of the calculation indicates a significance level of 0.000 (<0.05), indicating that Ho was rejected or that student responsibility for online learning in the undergraduate, masters, and doctoral degrees varied (table 5). Students at the doctoral level (26.782) are more responsible than masters level (26.345) and undergraduate level students (27.345) (24.991). Undergraduates have the least number of responsibilities compared to graduate and doctoral students.

3.6. Students’ responsibility towards online learning in terms of gender

Table 6

<table>
<thead>
<tr>
<th>Responsibility</th>
<th>Undergraduate</th>
<th>Mean</th>
<th>Std. error</th>
<th>95% Confidence interval Lower bound</th>
<th>Upper bound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>25.682</td>
<td>.294</td>
<td></td>
<td>25.104</td>
<td>26.259</td>
</tr>
<tr>
<td>Female</td>
<td>26.397</td>
<td>.229</td>
<td></td>
<td>25.946</td>
<td>26.848</td>
</tr>
</tbody>
</table>

The computation result was sig. 0.025 (<0.05); therefore, Ho was rejected, leading to the conclusion that there was gender-based disparities in the obligations of online learning students (table 6). Female students (26.397) demonstrate superior accountability compared to male students (25.682).

4. Discussion

Students with strong initial talents exhibit a positive disposition. This can be a guide for us, if we have good initial skills then our attitude when participating in learning in the classroom is much better in online learning. A good attitude can be controlled and shown by students who have high initial abilities (Buckwalter, 2019; Hong, Hsiao, et al., 2021).

Higher education can affect students’ attitudes toward participating in learning. The high level of education that students have allows them to control their attitudes. Therefore, the level of education is very important for individuals to be able to have a good attitude in the learning environment. The level of education has a close relationship with the attitude shown by the individual (Belo et al., 2020; Tsai et al., 2019).

Gender does not influence student attitudes in participating in learning. The good attitude shown by students does not depend on their gender. Gender cannot be changed. However, the attitudes possessed by individuals can be changed according to their wishes. Different genders have no impact on the attitudes shown in participating in learning (Hoang, 2021; Reddy, 2017).

The initial abilities of students have an impact on their responsibilities in lectures (Metz, 2021; Wardono et al., 2021). Individuals who have good initial abilities will also have a good sense of responsibility in lectures. Responsibility is shown by coming for class hours, doing assignments on time, and consulting according to the agreed time.
Individuals with a high degree of education have a significant obligation. This is because those with a high degree of knowledge will see the necessity for accountability to study effectively. With responsibility, we will think that the education we are taking must be completed immediately. The higher the level of education of a person, the higher the responsibility on him.

Responsibilities held by women look better than the responsibilities held by men (King et al., 2020). The responsibilities shown by women are greater than men; this is because women are more thorough and tend to be able to complete various tasks (one form of responsibility) given to them as well as quickly as possible. This implies that gender affects responsibilities.

5. Conclusion

According to the study’s findings, attitudes towards online learning varied according to baseline ability. Students with excellent initial abilities exhibited more positive attitudes than students with lesser initial skills. Second, students' attitudes towards online learning varied according to their level of education. The attitude of doctoral students was more hopeful than that of masters and undergraduate students. The attitudes of undergraduates were the least positive compared to those of masters and postgraduate students. Thirdly, there were no gender differences in student attitudes about online education. Fourth, students’ responsibilities with online learning varied according to their initial capability. Students with exceptional early abilities demonstrated a higher level of commitment than students with less special early skills. Fifth, at the undergraduate, master, and doctoral levels, there were significant disparities in student attitudes toward online learning.

Doctoral students bear a greater responsibility than masters and undergraduate students. In comparison to masters and postgraduate students, undergraduates overlooked minor errors. Finally, there were disparities in the obligations of online learning students based on gender. Male and female students are held to a higher standard of responsibility.

Many factors can affect the attitude and responsibility of individuals in online learning. The attitude of students was impacted by their ability and their degree of education, while their sense of responsibility was influenced by their physical ability, level of education, and gender.

6. Recommendations

According to this conclusion, recommendations are that research educators should consider students’ initial abilities when designing online learning. According to the study, students with higher initial abilities demonstrated more favorable attitudes and responsibilities toward online learning than students with lower initial skills. In online education for undergraduate students, educators must promote more positive attitudes and responsibilities than postgraduate students as undergraduate students exhibit the most hostile attitudes compared to masters and doctoral students. Lecturers do not need to take gender into account when designing online learning as there were no significant differences in student perspectives. They must still take responsibility as female students were more accountable than male students.

Attitudes and responsibilities are needed by students in online lectures. The research that is currently being carried out is to look at the internal factors that exist within students. The attitudes and responsibilities that exist in students are certainly different, but we can improve them through
external stimuli. In the future, the research can be continued by looking at the attitudes and responsibilities of students who are influenced by external factors or the surrounding environment.

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