



Religious Integration with Science Education Concept in The Era of The Rise of Artificial Intelligence

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Abstract

The progress of the times is marked by the intensive use of advanced technology in various fields, especially using artificial intelligence in various lines of life, such as education, health, games for the younger generation, and so on. The strength of faith and piety is really needed in this type of life pattern so that life is not wasted and there is no damage on the face of the earth. Therefore, it is necessary to discuss the integration of faith and piety in facing the emergence and rise of artificial intelligence (AI), especially in the world of education, so that the young generation who will be the successors of life in the future is not eroded by the flow of artificial intelligence and eliminates the inner intelligence regarding the existence of beliefs. that goodness from God is truly true goodness. The author has made quantitative observations of several young people at the high school level, both private and public, where this research uses inferential statistical analysis in the form of PST (paired-sample t-test). The results show that there are differences in attitudes and behavior in facing the rise of artificial intelligence, especially in the world of education. In this research, it was found that the young generation at high school level who were introduced to faith and piety more intensely, had different attitudes and behavior in dealing with life's problems, but there was a tendency to have an understanding of the concept of life as a servant of God. This means that there are differences in the use of artificial intelligence when religious material is included in non-religious material such as chemistry, and so on.

Keywords *Intelligence; faith; servant*

INTRODUCTION

Humans just creation from God that need way to live in the world. Without knowledge as the way to live in the world, juvenile delinquency will increasingly rampant, especially in this increasingly modern era, where the modern era is synonymous with the era of artificial intelligence. This is proven by the results of research reported by Amanda, Tieken, Davies, and Kusumaningrum (2019), relating to juvenile delinquency, data obtained stating that more than 3000 teenagers (under 18 years) are imprisoned every year. This is included in the high level category, even though in Indonesia there has been ratification (enactment of the law) on juvenile delinquency cases. The age of adolescents ranges from 10-19 years, while young people or early adults are around 15-24 years, according to WHO (2023). Juvenile delinquency experienced by humans has occurred since humans first appeared on earth, from the beginning of their existence on earth (the lifetime of Adam

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and Eve) until now, where it has increasingly become a habit along with human development. The initial cause of juvenile delinquency was the existence of a selfish person who maintained his ego named Qobil (son of Adam and Eve) in order to get his idol, to the point of having the heart to kill his sibling named Habil. The advice from his father and mother was not listened to, his love for his siblings was lost, so that the figure he looked up to was no longer a human, but an animal before his eyes. That is, if the eyes are darkened to fulfill the ego, then the conscience as a human can disappear and become the conscience of an animal. Therefore, it can be said that the problem of juvenile delinquency is a problem that has become entrenched in human life (Thompson, et. al, 2016).

In this research, the author will try to explain the efforts and results, as well as an analysis of what he has done in an integrated lesson between general or non-religious science studies (natural and/or social sciences) with religious science studies. This effort is in accordance with the scientific statement which is supported by a conscience that believes in the existence of God's truth in true religion which was stated by Einstein in Suriasumantri (2009), that and science without religion is blinded, while religion without science is paralyzed. If schools only use artificial intelligence without paying attention to religious elements, juvenile delinquency will undoubtedly continue to increase and be difficult to control.

LITERATURE REVIEW

One of the causes, apart from those explained by the author above, which comes from the holy book of one of the largest religions on earth, is the existence of juvenile delinquency, coupled with the opinion of Singh and Azman (2020), which can be caused by teenagers seeing the behavior patterns around them. If what is observed is bad, it could be that the bad thing is then imitated. This is in line with Robert Bandura's social learning theory, namely that humans can learn knowledge by observing and imitating. Apart from that, in accordance with the social tension theory explained by Agnew (2019), when children are unable to achieve their goals through the right means, they may turn to deviant behavior, giving rise to the term juvenile delinquency. From at least these two theories, it is possible that the family, society, even those involved in the world of education also have a role in the deviant behavior experienced by teenagers.

The problem of juvenile delinquency must be addressed properly and correctly so that it does not become more rampant on earth. Based on the report by Popple, Leighninger, and Leighninger (2021), as time goes by, there are groups of people who create social work organizations which aim to help fellow humans who experience difficulties in social life, whether in the fields of psychology or psychology, health, economics, science, etc. and others, including juvenile delinquency problems. For weak humans like us, who have experienced sleepiness, pain, hunger and thirst, we need strength outside ourselves. So, there must be an Almighty outside of us, none other than, He is God, the Almighty Creator. There is one thing that seems trivial, but is very important to do in order to overcome undesirable things in life, especially in efforts to prevent damage on earth based on God's message. Therefore, it is very necessary to seek and ask for the best solution from the Almighty Creator by remembering His instructions and making requests so that we receive His guidance (Demina, et. al, 2022). So that we do not make mistakes in behaving on earth, which is one of His many creations. One of the efforts offered by the author here is to integrate general science studies (both natural and social sciences) with scientific studies that can increase our faith and devotion to Him.

The integration of scientific studies has been ideated by several experts, such as Fogarty (1991), Drake and Burns (2004), Drake and Reid (2020), and others. As for studies related to matters of faith and devotion to Him, it seems that they are still very rare to find. The study of general science referred to here is knowledge other than those related to faith and piety or other than the study of belief in the existence of the Almighty Creator and belief in the existence of a day

of accountability for deeds in the afterlife, as well as the existence of heaven and hell which He has promised for certain groups which He has explained. in His holy book.

RESEARCH METHOD

The quantitative research method with a one group pretest-posttest research design was chosen by the author and researcher in this scientific paper. This one group pretest-posttest research design is suitable for research that requires a comparison of results before and after treatment or to determine whether or not there is an effect of treatment in a study (A'yun et al., 2023; Ole, 2023). The treatment given by researchers here is an integrated study of general knowledge and the study of faith and piety in the existence of God and the last day (the day of resurrection). The researcher used a sampling technique in the form of simple random sampling, where the sample was chosen randomly or without considering its character first. The important thing is that the sample followed the learning given when the treatment was given. The sample size was determined based on general considerations as well, namely a minimum of 10 people. This is according to Sultana (2020), Memon, Ting, Cheah, Thurasamy, Chuah, and Cham (2020), also according to A'yun et al. (2023) can be considered quite representative of the population, especially since there is only one variable used in this research, namely understanding faith and piety. Researchers here used a sample size of 30 students at the high school education level, thus meeting the minimum sample size requirements in a study. Where the sample was taken from the population who were currently studying at SMA and MA at the Muhammad Ya'qub Jombang Foundation from grade 1 to grade 3.

The instrument used in this research is a questionnaire, so the data collection technique is a questionnaire. The data analysis technique mainly uses inferential statistical analysis techniques, namely the paired sample t-test. The tool to help with data analysis calculations is SPSS 16.0.

FINDINGS AND DISCUSSION

An example of the integration for physics and chemistry that implemented on this research can be observed in Figure 1.

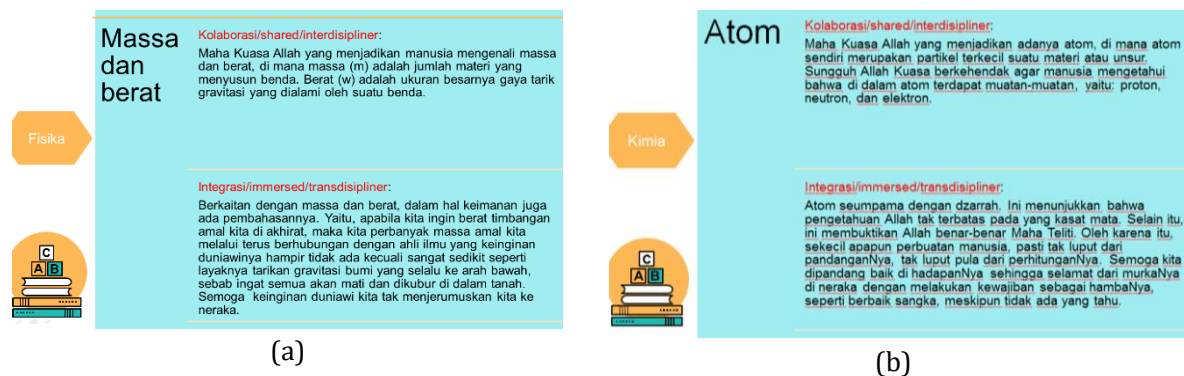


Figure 1. Example of integration of faith-piety and general knowledge; (a) Physics, (b) Chemistry

Translation into English of the integration sentence according to Figure 1 which consists of two types of integration, namely: 1. Collaboration or equivalent to shared according to Fogarty (1991) or equivalent to interdisciplinary according to Drake and Burns (2004), Drake and Reid (2020), and 2. Integration or equivalent to immersed according to Fogarty (1991) or equivalent to transdisciplinary according to Drake and Burns (2004), Drake and Reid (2020); each translation is as follows: (for Figure 1a.) 1. Almighty Allah makes humans recognize mass and weight, where mass (m) is the amount of material that makes up an object. Weight (w) is a measure of the magnitude of

the gravitational attraction experienced by an object, 2. Regarding mass and weight, there is also a discussion regarding faith. That is, if we want the weight of our deeds in the afterlife, then we increase the mass of our deeds by continuing to be in contact with scientific experts whose worldly desires are almost non-existent except for very few, like the gravitational pull of the earth which is always downwards, because remember, everything will die and buried in the ground. May our worldly desires not plunge us into hell.

For Figure 1b.: 1. Almighty Allah created the existence of atoms, where atoms themselves are the smallest particles of matter or elements. Indeed, Allah Almighty wants humans to know that in atoms there are charges, namely: protons, neutrons and electrons., 2. Atoms are like dzarrah. This shows that God's knowledge is not limited to the visible. Apart from that, this proves that Allah is truly the most thorough. Therefore, no matter how small a human's actions, they will not escape His sight, nor will they escape His calculations. May we be seen well in front of Him so that we are safe from His wrath in hell by carrying out our obligations as His servants, such as being kind, even though no one knows.

Based on the research results, it was found that there were differences between before and after treatment, where the treatment in this study was to integrate general science teaching materials (aside from religion) both physics and chemistry as in the example in Figure 1 above. The existence of this difference means that it has been proven that there is an influence on the integration of faith and piety in general science learning. This can be proven from the significance value in the paired sample t-test of 0.003, which means this value is smaller (<) than the α value (alpha; degree of error of 5% or 0.05). If the value of $\alpha = 5\%$, it means that the degree or value of truth or confidence in the results is equal to 95%. So, it can be understood that the results of this research show that the degree of confidence or truth is 95%, meaning that it is 95% correct that there is an influence on the integration of faith and piety into general science teaching materials. The significance value resulting from the paired sample t-test can be seen in Table 1.

Table 1. Result of Paired Sample T-Test

		Paired Samples Test							
		Paired Differences							
		Mean	Std. Deviation	Std. Error	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	totalPre - totalPost	1.60000	2.11262	.47240	-2.58874	-.61126	-3,387	19	,003

Source: personal research data

Based on these results, the "meaning" is obtained from the hypothesis created before the research was carried out, where the hypothesis consists of an alternative hypothesis and a null hypothesis. The null hypothesis means the estimated result or possibility that the desired result will not occur, while the alternative hypothesis means the estimated result or possibility that the desired result will occur. The hypothesis from the paired sample t-test is as follows:

H1: there is a difference (there is an influence) between before and after treatment (in the form of the integration of faith and piety into general science teaching materials), if sig. 2-tailed < α , $\alpha = 5\% = 0.05$ (correctness 95%, error 5%)

H0: there is no difference (no influence) between before and after treatment (in the form of the integration of faith and piety into general science teaching materials), if sig. 2-tailed > α , with the same α value as in H1

The hypothesis accepted in this research is that H1 is accepted or means the desired result occurs, namely that learning to integrate imtak with general science (apart from religion) has an effect on students. This is due to the difference in results between before and after treatment. It

should be further noted that the t value produced according to Table 1 is negative (-3.387). This shows that the resulting influence is a negative influence. This means that after being taught the integration of faith with general (non-religious) science, it actually causes students' understanding of faith which is manifested in daily actions to decrease or become worse. This is an interesting result, that is, it seems to be in accordance with the possible results or desired expectations, but it turns out that the expectations are negative (there is an influence, but not positive). This significant difference or influence in providing treatment in the form of learning the integration of faith and piety occurs with His permission. Whatever the result, whether or not there is an influence of the treatment, everything has been determined by Him, whereas what the researcher is doing here is only an effort as a believing human being to convey the truth from Him, namely remembering Him in all scientific study material.

Based on theoretical studies conducted by researchers, if information is repeated it will make it easier to enter long-term memory (Slavin, 2020). Therefore, providing treatment in the form of learning the integration of faith and piety needs to be carried out continuously and by all educators. When learning to integrate faith and piety becomes an entrenched habit, it is not surprising that patterns of behavior based on faith and piety are formed. The opposite will happen, namely that the influence obtained will be negative. This negative influence is caused by humans having ups and downs. Moreover, the questionnaires distributed were given at the same time, with two types of questionnaire sheets, where the first sheet was a question before learning about the integration of faith and piety into general science teaching material and the second questionnaire was a question before learning about the integration of faith and piety into science teaching material general. A higher level of honesty is needed to admit between before and after learning the integration of faith and piety into general science teaching materials.

According to Bloom's theory, it is said that the cognitive domain is the main characteristic of changes in student behavior. So, if expectations in the cognitive domain are achieved then the affective and psychomotor domains or those related to student attitudes and behavior can follow. This is confirmed by research by Aristotle and Ramraj (2022) and Cholik, Soeryanto, Rijanto, Arsana, and Azizah (2022). Learning about the integration of faith and piety into general science teaching materials needs to be improved not only materially in the classroom, but also practiced and taught to students by inviting students to also deliver learning materials on the integration of faith and piety into general science teaching materials. to other students, at least to their peers. Theoretically, according to A'yun (2022) and Khalifa and Brahimi (2017), this can bring benefits, namely 90% of the material will be stored in long-term memory when students can convey learning material to other parties, either to each other or fellow students (learning others). or peer learning), or others.

The integration of faith and piety material into general science teaching material is sought to reduce social tensions. Where, social tension in children (in this case students) according to Agnew's (2019) explanation, when it occurs in children, so that children are unable to achieve their goals through appropriate means. Therefore, children are likely to behave deviantly. By remembering matters of faith and piety, social tension can be reduced, so that there is no desire to achieve goals other than faith and piety (which are related to everyday life, such as the goal of having a lot of wealth, pleasant praise, lots of loyal friends or colleagues. work, etc.) is not the main thing. This is supported by the explanation in the holy book of one of the largest religions in the world, namely Islam, in Surah ar-Ra'd verse 28, which means: "Those who believe and their hearts become peaceful by remembering Allah. , just by remembering Allah (God), the heart becomes peaceful."

God makes peace arise in the hearts of every human being by giving humans the ability to utilize themselves and their environment on earth to solve life's problems. As time goes by, humans on this earth are becoming more organized in dealing with their problems or solving their life problems. One of them, as discussed by Popple, Leighninger, and Leighninger (2021) is regarding social worker assistance. which is one way to overcome social problems. (especially regarding cases of juvenile delinquency), by using artificial intelligence (AI), by providing mental and spiritual motivation, and so on. This motivation is realized by researchers in the form of providing learning integration on material about faith and piety in all non-religious or general material.

Looking at Robert Bandura's social learning theory, which states that humans learn by observing and imitating, both in the form of movements and words that form sentences in any

discussion of general or non-religious material. So, this learning pattern of observing and imitating should be used to imitate starting from the words spoken or the words that come to mind when facing problems with words that remind of faith and piety. Thus, what students remember is more likely to be issues of faith and piety, not those related to worldly issues that are complicated and cause inner tension, which can give rise to unnecessary despair. By His will, all life's problems can be overcome by students as part of the human group calmly. AI, which so far has only been to please people temporarily, can maximize its benefits by adding programs or posts via the internet or electronic systems to remember the existence of God and the eternal day in which all human deeds will be held accountable before God. Here the researcher recommends that AI be truly utilized so that students and all of humanity remember their God or work together to increase faith (belief in the existence of God, the Creator and Mighty One) and piety (obedience to God's guidance) so that they do not go in the wrong direction when facing life's problems while on His earth.

CONCLUSIONS

Based on the results and discussion in the discussion above, it can be concluded that treatment in the form of learning the integration of faith and piety in young Islamic students has an influence on their attitudes. However, it turns out that the influence is a negative influence, which can be seen from the negative t value. This is possible because the questionnaires distributed are at one time, the only difference is that the sheet code is written "before" and "after" the treatment. Apart from that, another possibility is that peer teaching or peer learning has not been maximized, even though theoretically and proven peer learning from previous research can be useful for maintaining understanding stored in long-term memory up to 90%. Finally, the researchers here recommend learning the integration of faith and piety in general science learning materials used in schools and in everyday life, provided that they pass on each other and practice the integration that has been obtained. Learning the integration of faith and piety in general science learning materials used in schools and in everyday life can calm the heart, because we believe that there is He, the Almighty Creator, who definitely loves us and is powerful enough to protect us from unnecessary despair.

LIMITATION & FURTHER RESEARCH

This research is still limited to samples from students only, it has not yet expanded to students, especially outside the educational institutions under the auspices of the Muhammad Ya'qub Jombang foundation. So the researcher's hope is that this research can be disseminated throughout Indonesia and even the world, so that everyone will be safe in the afterlife and meet God in good condition by His side in Heaven. Apart from that, this research needs to be studied further so that the data is actually taken before the treatment, because the researchers here took the data before the treatment by differentiating the questionnaires before and after the treatment by giving a title or code to the questionnaire, while the questionnaires were distributed at the same time (after treatment).

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