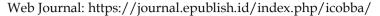
Proceedings International Conference of Bunga Bangsa (ICOBBA)

Volume 2 Number 1 February 2024

ISSN: 3032-5641 DOI: 10.47453





BRANCHES OF SCIENCE ABOUT ISLAM

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Received: 2023-12-05; Accepted: 2024-01-11; Published: 2024-02-29

Abstract

Education is said to be a medium for a person to acquire and develop his knowledge. to know and discover how physics and natural laws are related, biology, psychology and educational paradigms in an Islamic perspective. The importance of understanding the hamonic relationship between Islam and Science. Understanding the contribution of Islam and science can eliminate the misconception and importance of science in Islam. In the Qur'an, science is a privilege that makes man considered superior to other creatures in order to carry out the functions of his caliphate. The importance of instilling religious spiritual values in science learning in order to increase faith and devotion to God Almighty in observing the creation of the universe. This article uses the method of content analysis, literature review design that aims to obtain information and integrate science and Islam. The implementation of science learning can be carried out by internalizing the values of tawhid through Qur'anic studies related to science.

Keywords: Branches of Science, Islam



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INTRODUCTION

While Western countries have achieved tremendous success in the development of ultra-modern technology, Muslims have experienced systematic failures in the course of their civilization. Muslims lag far behind among the world's major religions. This is due to the low development of science and technology. Even today Muslims are mere spectators and the enjoyment offered

by Western countries lulls them to sleep with their technological sophistication. (Amri Teguh Pribadi &; Sestri, 2020)

Today the development of science in various scientific fields is very rapid, and the pioneers are almost entirely Western scientists and intellectuals. As a result, evolutionary science was formed with reference to Western philosophical thought which was influenced by materialism and secularism, therefore the interpretation and understanding of science itself cannot be separated from the influence of Western philosophical thought. The development of science and technology is not without obstacles. There has been a lot of in-depth research on the long-term impact of the rapid development of science. Matthew Orr exemplifies the study of the impact of human factors on the problem of global climate change. From this presentation came the idea of synthesizing religious and ethical teachings into scientific activities to control technological developments. American and religious scholars debate the need to unite science and religion. (Mukrimaa et al., 2016)

The use of science and technology that is not limited by morality and ethics has proven detrimental to human life. The Islamic view of science and technology is that Islam has never prevented humans from being advanced and modern. Islamic civilization has prominent features of scientific curiosity and systematic scientific research. Islam strongly supports its Ummah in conducting research in all fields including science and technology. Modern society has succeeded in developing advanced science and technology to overcome various problems in life, but on the other hand, advances in science and technology cannot prioritize noble morals. The purpose of science can bring prosperity to mankind. Islamic epistemology essentially assumes that science and technology must recognize the existence of universal human values. Qur'an. (Amri Teguh Pribadi &; Sestri, 2020)

RESEARCH METHODS

The "content analysis" method used in the preparation of this scientific magazine is to collect material from several books related to science and technical aspects of Islamic material into scientific articles and magazines. obtained from websites and electronic media for processing and analysis. (Word, 2022)

RESULTS AND DISCUSSION

A. Understanding Science

Science is a way of acquiring new knowledge in the form of scientific products through action. According to Agus Purwanto, in his book Universal Verses, there are 800 beautiful verses from the forgotten side of the Qur'an. Meanwhile, according to Sheikh Tantawi, there are 750 beautiful verses. Interestingly out of the 114 surahs of the Quran, only 15 suras do not have

beautiful verses, this shows how important verses are in the lives of Muslims. is a way to get new information in the form of products. science by doing. According to Agus Purwanto, in his book Universal Verses, there are 800 beautiful verses from the forgotten side of the Qur'an. Meanwhile, according to Sheikh Tantawi, the kauniyah verse numbered 750. No less interesting than the 114 surahs of the Quran, only 15 surahs do not contain kauniyah verses, this shows how important verses are in the lives of Muslims. (Salminawati &; Azhar, 2021)

According to the language, science comes from English science, while the word science comes from Latin science. Derived from scine which means to know. The word science is in English, while al-'ilm is in Arabic. The term science means knowledge, but according to Sayyid Hussein Al-Nasr, the word science in English cannot be translated into Arabic as Al-Ilm, because the concept of science understood by the West is different from science. from an Islamic point of view. (Fakhri, 2010)

Science is closely related to the history of Western life. All the different realities that exist become the clearest reference for photography and the study of the dynamics of the relationship between religion and science. In fact, the relationship between religion and science was found to weaken in the Middle Ages and previous centuries. Conflict, hostility, and even fierce fights that end in excommunication, oppression, or even the application of the death penalty. Islam's view of science is positive, meaning that Islam always requires us to develop knowledge.

The revealed sentence of Allah first became clear evidence of the duty of Muslims. The sentence of Allah SWT is Iqra' Bacaalah which means it must be read (learned) from the beginning. To develop a different science, Islam teaches its people to make vows in all natural events in the universe and also in the surrounding environment. Islam is the religion of rahmatallilalamin which means mercy for all nature. The verses of the Qur'an encourage Muslims to develop science. Islam through the Qur'an became the foundation of the epistemology and ideology of the ulama, which guided attitudes and behavior towards transcendence with the Creator, distinguishing him from the unbelieving ulama. It means having a spiritual dimension through remembrance and devotion to God (Amri Teguh Pribadi &; Sestri, 2020)

Based on the above understanding, it is affirmed that science is a process formed from the interaction of the human mind and the five senses with the natural environment. The meaning of the word the main object of scientific research is the empirical world, including man. At the same time, the main goal of science is the search for truth. In the Big Indonesian Dictionary (KBBI), the

meaning of science is equated with the word science. Science is knowledge itself, but from various references it is also clear that science and knowledge are not the same thing, where knowledge is broader than knowledge.

Knowledge is not necessarily called science, while exact knowledge is called science. Based on the above understanding, it can be said that science is the Islamization of all science. To get information, just be in front of the screen, the information you are looking for is already there. In fact, teachers only look for learning materials that are appropriate to their subjects, and learners are able to deepen the knowledge gained through the ability to find additional information beyond what the teacher teaches. The essence of utilizing technology is as a means to support human activities. The community must understand this as a positive impact of complementary technology as well as its influence on Islamic education, so that as the main goal of Islamic education must be able to produce successful humans in the world and the hereafter. (Word, 2022)

B. The Urgency of Science in Islam

There are so many verses in the Qur'an that talk about science and science, the Qur'an always suggests that man use his common sense to fight miracles and encourage him to increase his knowledge. In addition, the Qur'an also respects scholars. The Qur'an commands people to try and work and always pray for more knowledge. When the Prophet (peace be upon him) admitted that the ulama were the heirs of the Prophet. (Saefulloh, 2017)

The Qur'an explains that ulama refers to scholars who recognize and follow Allah Almighty. Science in a special sense plays an important role in the life of a Muslim, in line with other Islamic sciences, including fardu kifayah, because it is able to have a positive influence on one's faith. Islamizing science, according to al-Attas, means freeing man from supernatural, mythological, animistic, ethnocultural or cultural traditions that contradict Islamic values and the shackles of secular thought.

Islamization is a process towards its original form, which is not as strong as the process of development and decentralization. (David, 1998) This means that with the Islamization of science, Muslims can eliminate everything that is contrary to Islamic values, so as to create harmony according to their nature. To carry out the Islamization of science, according to al-Attas, it is necessary to involve two processes, both of which are interrelated. First, there must be a process of separation of certain elements and some basic concepts that make up Western culture and civilization. Another aim is to incorporate Islamic nuanced elements and some key concepts into all aspects relevant to modern science. In general, the Islamization of science plans to respond positively to the existence of modern secular science and the overly religious paradigm of Islam. In the new

scientific model, the two are synchronized without separating each other. (Salminawati &; Azhar, 2021)

1. Physics and natural laws of Islamic perspective

Physics is one of the branches of natural science that studies natural phenomena and the properties of physical objects. Understanding physics is one of the efforts that must be made to instill faith in the power and majesty of God. Thus, the understanding of physics can strengthen the foundation of Islamic faith, because by knowing the secrets of nature, humans will increasingly praise Allah SWT who has created all the wonders of the universe that cannot be done by other creatures. (Tebriani, 2021)

In several verses of the Qur'an, Allah SWT emphasizes the importance of vow (fixation) in knowing the signs of the greatness and power of Allah SWT. Also, the importance of learning and seeking information. The first verse of revelation emphasizes the command to "recite" to mankind, that is, to recite the verses of Allah, and the Qur'an, the kalam Allah, and sentences found in nature. The formation of this universe with its various phenomena is the key to Allah's guidance, said Sayyid Qutb in the Zilal of the Qur'an. According to Yusuf Qardawi, the book of Allah is distributed to humans to read His power and greatness. Although God is a central theme in the Qur'an, the Qur'an never describes creation figuratively, but only mentions its signs. This situation means that in order to understand God's essence, one must study and understand all aspects of His creation. (Hula et al., 2023)

As explained above, science is the study of natural phenomena using the scientific method, science has a correlation with the process by which man recognizes the attributes of God. Every natural object and phenomenon is evidence of God's existence and power. Science strengthens man's faith in God. Science has proven that the universe is orderly, dynamic, and all its elements are connected to each other in an orderly and orderly manner.

1. Biology in an Islamic perspective

Biology is a science that studies living things, starting from the process of creation of living things, to the development of living things and ending with the process of reproduction. Not only that, the field of biology is also very broad, discussing plants and animals, which are formed into several broader disciplines. in specialized departments such as embryology, botany and zoology. (Word, 2022).

With the help of science, some of the wisdom and benefits of writing the laws of the Qur'an were revealed. Science was able to prove that the laws of the Qur'an apply to the real reality of life and natural conditions. For example being

able to see the law on wine, the Qur'an forbids it because it adversely affects the systems and organs of the human body, supported by science. However, it should be emphasized that religion cannot be understood only through scientific theories alone, because the attitude of science is not the same as the attitude of worship, God cannot be known, and religion cannot be lived only through scientific theories alone, but by using sciences to support a deeper understanding of religion certainly gives a more positive picture of religious laws and makes Muslims more confident to follow them. As is known, the components discussed in biology cannot be separated from humans, animals, and plants. All these components are of course explained in the Quran and Hadith. (Program et al., 2017)

2. Human Psychology in an Islamic Perspective

Islamic psychology emphasizes not only psychological behavior but also the true nature of the soul. Islamic psychology recognizes human consciousness and freedom to create, think, will and act consciously within the corridors of the Sunnah SWT Allah. Islamic psychology stimulates self-awareness to develop more perfect qualities for happiness here and there. During the Abbasid period there were many movements of translation and exegesis, as well as the original works of Islamic thinkers of first generation scientists. The understanding of the Nafis was influenced by the Quran and Hadith.

The study of nafs that was developed was initially not known by the term psychology, but as Sufism and morals, which is a science that emphasizes nafs as a questionable trait that must be purified (tazkiyah an nafs) in order to become a healthy nafs (nafs) muthma-innah. Academic Debate between Ibn Rushd and al-Ghazal Academic debate between the mainstay school of Islamic philosophy (Muslim philosophers who began to influence Greek thought to discuss the soul and spirit) and the Kalam and Sufism schools.

According to Malik B. Badr, there are three stages of Islamic psychologists' attitudes towards modern Western psychology, namely: In the childhood phase, modern psychological theories are followed without criticism, The reconciliation phase matches the content of psychological theory with the Qur'an and assumes there is no contradiction between the two. (Goddess, 2013)

CONCLUSION

Based on the understanding of experts, it can be concluded that science is a way of obtaining new knowledge in the form of scientific products through activities called scientific. While according to the language, science comes from the English word scientific, while the word scientific comes from the Latin word scientia. There are several opinions about the meaning of science according to the term, but in general it can be interpreted as a priority for the search for truth. The

New Colombian Encyclopedia defines science as a systematic collection of knowledge about the metaphysics of life and death, including the attitudes and methods used to acquire that knowledge. Science in a special sense plays an important role in the life of a Muslim, as well as other Islamic sciences that are classified as fardu kifayah, because it can have a positive influence on the growth of one's faith. Physics is one of the branches of natural science that studies natural phenomena and the properties of physical objects. Understanding physics is one of the efforts that must be made to instill faith in the power and majesty of God. Thus the understanding of physics can strengthen the foundation of Islamic faith, because by knowing the secrets of nature, humans increasingly praise Allah Almighty who has created all the wonders of the universe. Biology is a science that studies living things starting from the origin of living things to the process of development and reproduction of living things, not only that the field of biology is also very broad and discusses plants and animals, reprocessed by various branches of science., particularly as embryology, botany and zoology. Islamic psychology emphasizes not only psychological behavior but also the true nature of the soul. Islamic psychology recognizes human consciousness and freedom to create, think, will and act consciously within the corridors of the Sunnah SWT Allah.

BIBLIOGRAPHY

- Amri Teguh Pribadi, S., &; Sestri, E. (2020). Islam and modern technological science. Scientific Journal of Technology and Information, 1(1), 26–32.
- Dewi, S. K. (2013). The dialectic of integration between psychology and Islam in Indonesia: opportunities for experiential methods. Journal of Integrative Psychology, 1(1), 135–141.
- Fakhri, J. (2010). Science and technology in the Qur'an and its implications in learning. Ta'dib, 15(1), 122–142. https://journal.iaingorontalo.ac.id/index.php/tjmpi/article/view/1137
- Word. (2022). ISLAMIC EDUCATION IN THE MIDST OF ADVANCES IN SCIENCE AND TECHNOLOGY (A Study in Theological Perspective). Al-Gazali Journal of Islamic Education, 1(2), 2830–2842.
- Hula, I. R. N., Gunawan, M. R., &; Boham, H. (2023). TAFSIR TARBAWI: PHYSICS EDUCATION IN THE QURAN. 184–191.
- Mukrimaa, S. S., Nurdyansyah, Fahyuni, E. F., YULIA CITRA, A., Schulz, N. D., ユ, シュン・、Taniredja, T., Faridli, E. M., &; Harmianto, S. (2016). No 主観的健康感を中心とした在宅高齢者における健康関連指標に関する共分散構造分析Title. Journal of Primary School Teacher Education Research, 6(August), 128.

- Program, M., University, D., State, I., North, S., Khaldun, M. I., Winansih, V., Kealaman, P. I., Hadith, D., &; Perintis, C. M. (2017). KNOWLEDGE OF BIOLOGY IN THE QUR'AN Ojak Manurung. II (1), 155–174.
- Saefulloh, A. M. (2017). Study of the Correlation of Science and Religion in the Islamic Paradigm. Tarbiyatuna Journal, 10(2), 137–157.
- Salminawati, S., &; Azhar, M. (2021). The Urgency of Islamization of Science. ANSIRU PAI: Professional Development ..., 228–235. http://jurnal.uinsu.ac.id/index.php/ansiru/article/view/11007%0Ahtt p://jurnal.uinsu.ac.id/index.php/ansiru/article/download/11007/503
- Tebriani, S. (2021). Islamic Philosophy on Learning Physics of Matter Pressure An Urgency of the Qur'an in Understanding Concepts. 7(2), 151–159.
- Amri Teguh Pribadi, S., &; Sestri, E. (2020). Islam and modern technological science. Scientific Journal of Technology and Information, 1(1), 26–32.
- Dewi, S. K. (2013). The dialectic of integration between psychology and Islam in Indonesia: opportunities for experiential methods. Journal of Integrative Psychology, 1(1), 135–141.
- Fakhri, J. (2010). Science and technology in the Qur'an and its implications in learning. Ta'dib, 15(1), 122–142. https://journal.iaingorontalo.ac.id/index.php/tjmpi/article/view/1137
- Word. (2022). ISLAMIC EDUCATION IN THE MIDST OF ADVANCES IN SCIENCE AND TECHNOLOGY (A Study in Theological Perspective). Al-Gazali Journal of Islamic Education, 1(2), 2830–2842.
- Hula, I. R. N., Gunawan, M. R., &; Boham, H. (2023). TAFSIR TARBAWI: PHYSICS EDUCATION IN THE QURAN. 184–191.
- Mukrimaa, S. S., Nurdyansyah, Fahyuni, E. F., YULIA CITRA, A., Schulz, N. D., ュ, ション・、Taniredja, T., Faridli, E. M., &; Harmianto, S. (2016). No 主観的健康感を中心とした在宅高齢者における健康関連指標に関する 共分散構造分析Title. Journal of Primary School Teacher Education Research, 6(August), 128.
- Program, M., University, D., State, I., North, S., Khaldun, M. I., Winansih, V., Kealaman, P. I., Hadith, D., &; Perintis, C. M. (2017). KNOWLEDGE OF BIOLOGY IN THE QUR'AN Ojak Manurung. II (1), 155–174.
- Saefulloh, A. M. (2017). Study of the Correlation of Science and Religion in the Islamic Paradigm. Tarbiyatuna Journal, 10(2), 137–157.
- Salminawati, S., &; Azhar, M. (2021). The Urgency of Islamization of Science. ANSIRU PAI: Professional Development ..., 228–235. http://jurnal.uinsu.ac.id/index.php/ansiru/article/view/11007%0Ahtt

p://jurnal.uinsu.ac.id/index.php/ansiru/article/download/11007/503

Tebriani, S. (2021). Islamic Philosophy on Learning Physics of Matter Pressure An Urgency of the Qur'an in Understanding Concepts. 7(2), 151–159.