

## Article Review : Analysis of the Development of Integrated Teaching Materials of Qur'anic Verses in Science Learning

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### ABSTRACT

Teaching materials are very important for students to help students in understanding the subject matter. Good teaching materials should not only contain knowledge, but also contain spiritual, social, and emotional intelligence. For this reason, it is necessary to conduct research related to the development of teaching materials that are integrated verses of the Qur'an. The method used in this study is the literature review method. In this study, researchers reviewed relevant online journals related to the development of integrated teaching materials for Qur'anic verses in science learning. Articles were analyzed in the 2017-2023 timeframe. This study used data obtained from reputable online journal articles published on the internet with a period of 2017-2023. Journal search using Google Scholar database with medium and high quality by entering the keywords "Teaching Materials", "Qur'anic Verses", and "Science Learning". The results showed that teaching materials integrated with verses of the Quran are very suitable, feasible and effective if used in learning.

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## 1. INTRODUCTION

Science is indispensable knowledge in modern times as it is today. A person who masters science will be respected and appreciated in social life. One of the sciences that can be tested for truth is science. Any scientific hypothesis can be tested by utilizing the existence of natural objects. The most beautiful creation of the Most High is nature. Nothing compares to His brilliance in creating and adorning nature. It is not only students' knowledge that will advance when two different groups of knowledge are combined into one. Instilling a good Islamic spirit for student character growth will also help to improve students' understanding of Islam in a broader sense (Nurjanah, F., Triwoelandari, R., & Nawawi, M. K., 2018). Especially in the 21st century, everything must be based on logic. However, we as Muslims must uphold the values of Islam while keeping up with the times (Lailiyah, 2018).

One way that can be done is to integrate Islamic values in science learning. Science will not be separated from the science of the Qur'an and Hadith whose content is unquestionable. Science is used as a science related to natural objects that are general in nature and use certain laws that apply anytime and anywhere (Chanifudin & Nuriyati, 2020). The Qur'an places great emphasis on science in order for man to study the universe to create awareness of the omnipotence of Allah Almighty. Therefore, science must be guided by revelation (the Qur'an) in order to benefit the lives of mankind (Sulaiman, 2020). For example, integrating verses of the Qur'an in teaching materials used by learners. The application of Islamic religious values to learning will create goodness between humans so that it will form noble morals (Zega & Darmana, 2019). Learning motivation is very important for a Muslim because learning motivation can be the level of religiosity of a Muslim (Yunita & Prayitno, 2019).

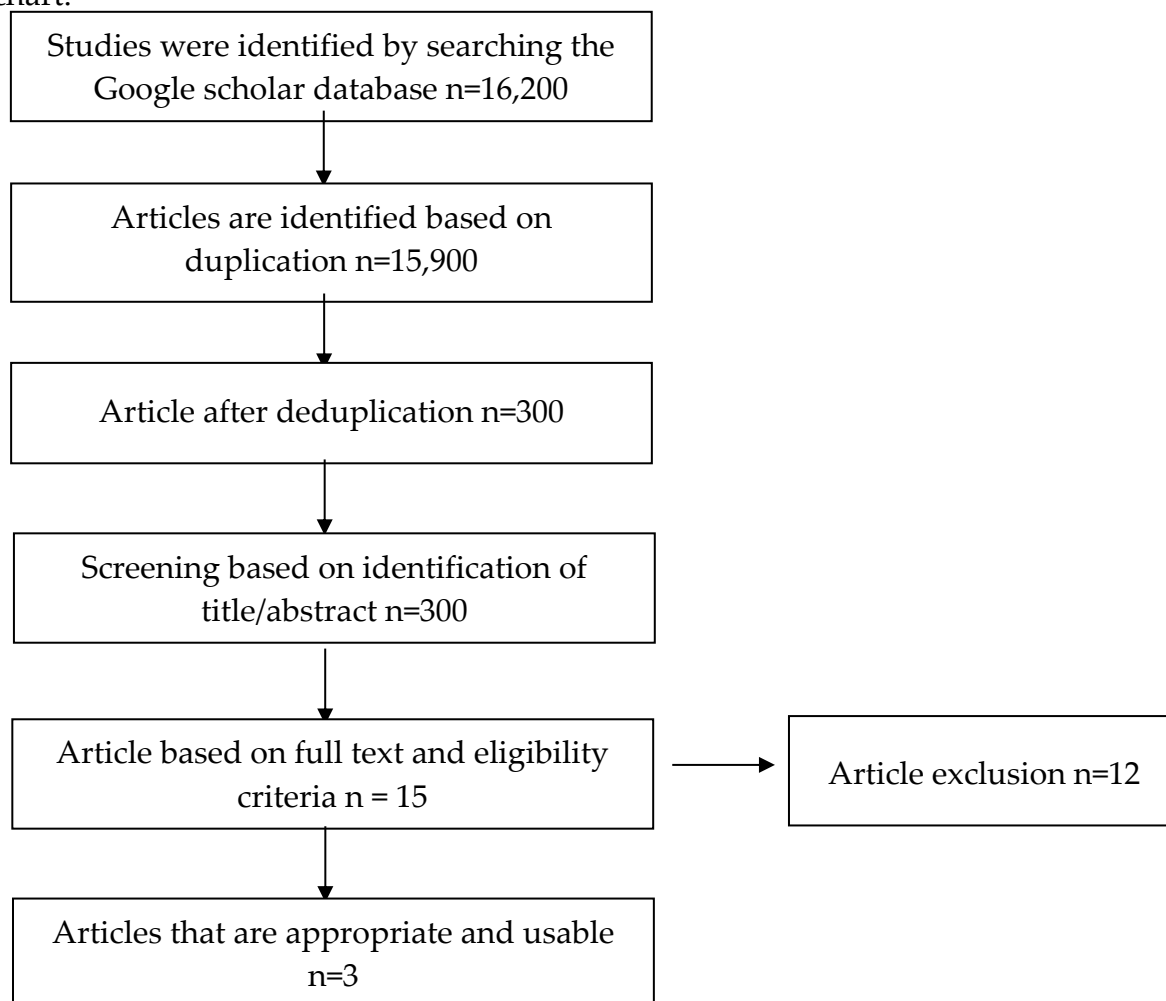
In the Islamic perspective, spiritual strength, intelligence, and noble morals refer to the Qur'an and Hadith. The Prophet *sallallahu'alaihi wasallam* strongly recommended that Muslims have noble morals. This is according to his saying "put your trust in Allah wherever you are, follow every bad with goodness, surely that good will remove it, and associate society with good morals" (H.R At-Tirmidhi, 18th Arbaeen Hadith). The Qur'an is a guide for mankind, one of which is a source of noble teachings and contains knowledge sharing, in accordance with the 2013 curriculum program, especially for students who are Muslim, the Qur'an is used as the main foundation in studying to build the character of students, in accordance with the 2013 curriculum which is more often called the character education curriculum where the essence of character education is noble morals (Satria, A. A., Am, J., & Achyani., 2017).

Teaching materials are materials that contain learning materials that are arranged systematically in accordance with learning principles (Magdalena et al., 2020). Teaching materials are very important for students to help students in understanding the subject matter. Good teaching materials should not only contain knowledge, but also contain spiritual, social, and emotional intelligence (Mahardika et al., 2016). Teaching materials contain information, tools and texts what teachers need in planning and reviewing the application of learning (Satria, A. A., Am, J., & Achyani., 2017).

## **2. METHODS**

The method used in this study is the literature review method. In this study, researchers examined relevant online journals related to the development of integrated teaching materials for Qur'anic verses in science learning. This study used data obtained from reputable online journal articles published on the internet with a period of 2017-2023. Journal search using Google Scholar database with medium and high quality by entering the keywords "Teaching Materials", "Qur'anic Verses", and "Science Learning".

The results of the review article selection are illustrated in the following flow chart.



**Figure 1.**  
Flow Diagram Literature Review based on PRISMA (2009) (Maher, et al., 2009)

### 3. FINDINGS AND DISCUSSION

#### Findings

**Table 1.**Development of Integrated Teaching Materials of Quranic Verses

Teaching Materials	Material Learning	Journal/ Year	Research Methods	Research Results
Generative Learning Module	Static Fluid	Journal of Informatics and Science Education/2020	1. Research and development 2. ADDIE ( <i>analyze, design, development, implementation, evaluation</i> ) 3. Research instruments in the form of module validation sheets, RPP validation	Integrated generative learning module static fluid materials Qur'anic verses

Teaching Materials	Material Learning	Journal/ Year	Research Methods	Research Results
			sheets, learning outcome test validation sheets, RPP implementation observation sheets, and learning outcome tests	suitable for use in learning
Module	Immune System	Lectura: Journal of Education/2023	<ol style="list-style-type: none"> <li>1. <i>Research and Development (R&amp;D)</i></li> <li>2. ADDIE model consisting of five stages, namely Analysis, Design, Development, Implementation and Evaluation using <i>quasi-experimental</i> research design</li> <li>3. Research instruments for data collection, namely test and non-test</li> </ol>	The modules that have been developed are worth using and fall into the excellent category according to religious experts, material experts, and media experts
Module Biology Based Scientific	Ecosystem	Journal of Educational Lanterns Research Center LPPM UM METRO/ 2017	<ol style="list-style-type: none"> <li>1. Research and development from Borg &amp; Gall</li> <li>2. Research stages in the form of research and information development stages, development stages and operational tests</li> </ol>	The modules are categorized very well and are worthy of being used as an alternative source of learning biology

In the analysis of the first article entitled "Development of generative learning modules of static fluid materials integrated with verses of the Qur'an", the results showed that the module was suitable for use in learning. In this article it is found that the integration of static fluid physics material with the verses of the Qur'an is as follows. In the hydrostatic pressure submaterial of Qur'anic verses integrated in the learning module are Surah An-Naba' verse 14, surah An-Nahl verse 65, surah 'Abasa verse 25, surah Al-Mu'minun verse 18, and surah Muhammad verse 31. In the submaterial of Pascal's Law the verses of the Qur'an that are integrated are Surah Ash-Shura verse 33, surah Shaad verse 36, surah Ar-Rum verse 46, and surah Luqman verse 16. In the submaterial of the Law of Archimedes verses of the Qur'an that are integrated are Surah Al-Ankabut verse 65, surah Al-Qamar verse 15, surah Al-Jaatsiyah verse 12, surah Luqman verse 31, and surah Al-Zalzal verses 7-8. In the submaterial Viscosity of Qur'anic verses that are integrated are surah Al-Faathir verse 12, surah Al-Furqan verse 53, and surah Hud verse 112 (Zainuddin et al., 2020). The learning process is the process of observing, discovering, understanding, and living the Sunnatullah so as to make the awareness of the existence of Allah Almighty the Most Perfect as the ultimate goal of learning activities (Fakhri, 2010)

In the analysis of the second article entitled "Development of Immune System Modules Integrated with Religious Values to Improve Spiritual Attitudes and Mastery of Student Concepts", the results showed that the modules that had been developed were suitable for use and included in the excellent category according to religious experts, material experts, and media experts. As is known, in general the spiritual aspect is needed to emphasize the importance of developing students' self-strengths. This can be done to obtain basic competencies in character education, especially through Qur'an-based science, in addition to Islamic religious lessons that have been given (Hidayati, M., Zainuddin., & Dewantara, D., 2022). The Qur'an is a guide for mankind as a source of noble moral teachings and science (Satria et al. 2017). The Qur'an serves to provide direction and guidance and these instructions also include education (Qowim, 2020). With the development of integrated learning modules of Qur'anic verses, participants can take lessons directly and apply them to learning.

In the analysis of the third article entitled "Development of Scientifically Based Biology Modules Integrated with the Qur'an and Hadith on Affective Students of SMA Negeri Tiga Dihaji Oku Selatan", the results showed that the modules were categorized as very good and feasible to be used as alternative sources of learning biology. Faith and devotion to Allah SWT can cause a positive attitude in students and motivate students to always be grateful and add faith and piety to Allah SWT (As-Syiba et al., 2023). According to Ibn Khuldun, the Qur'an is the foundation for the entire educational curriculum in the Islamic world (Sri Anggoro et al., 2019). Assingkiy stated that the Qur'an is alive and one way to bring the Qur'an to life within oneself is through praiseworthy behavior (Lubis et al., 2020). The values contained in science are religious values that can be developed by inserting verses of the Qur'an into the discussion of science (Latifah & Ratnasari, 2016). Integrating religious values into modules as learning resources also seeks to fulfill the National Education System, namely developing abilities and shaping the character and civilization of a dignified nation in order to educate the nation's life, aims to develop the potential of students to become human beings who believe and fear God Almighty, have noble character, healthy knowledge, capable, creative, independent, and become democratic and responsible citizens (Sholihah & Kartika, 2018)

High academic ability will be perfect when balanced with religious values (Nurjanah et al., 2018). Education that is integrated with Islamic values will form good behavior (Nurhamdiah et al., 2020). Integration is one way used to combine two things that are the same or contradictory in nature. According to the Big Indonesian Dictionary (KBBI), *Integrasi* comes from the Latin *integer*, which means renewal until it becomes a whole or round whole. Permadi (2016) explained etymologically, integration comes from English, namely *integrate* which means uniting separate parts in one unit. Not just that, what is meant by integration here is combining two things that are opposite to each other. Or in other words, bridging between Islamic exclusive thought and western secular thought, so as to produce a new mindset as a whole and

moderate. While what is meant by integration of values is to combine certain values with other concepts to produce a blend that supports each other.

Religious attitudes are positive attitudes that show belief in God through divine relationships as a form of obligation to God and social relations as a form of relationship with fellow living beings (Susilowati, 2017). The existence of religious values in students can make students able to control the emotions that exist in them. Smart students are not only students who have high intellectuals, but intelligent students are students who also have spiritual and emotional in themselves so that they are able to compensate with their intellectual intelligence. The implementation of religious attitudes to students can be done by integrating religious values in the learning resources used in learning. Learning resources are one way that can be used to improve education, for example through teaching materials that are integrated with religious values (Wahyuni et al., 2017).

#### **4. CONCLUSION**

After conducting an analysis of relevant online journals related to the development of integrated teaching materials for Qur'anic verses in science learning as many as 3 articles, the author concluded that teaching materials integrated with Qur'anic verses are very suitable, feasible and effective if used in learning.

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