Assimilating the Verses of Qur’an (VoQ) into Basic Physics (BP) lecture at Universitas Islam Negeri Sultan Thaha Saifuddin Jambi

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Abstract. This study endeavored to response the subsequent requests: "(1) what are the Verses of Qur’an (VoQ) that are appropriate to be assimilated into Physics Instruction Prospective Teacher Student of Universitas Islam Negeri Sultan Thaha Saifuddin Jambi (UIN STS-Jambi)? and (2) "In what subjects of basic physic (BP) can be assimilated? To this finale, percentage technique in addition to discussion stayed cast-off to gather documents from ten contributors. Contributors are physics education lecturers in BP courses as many as 3 people. All of contributors were also lectures and prospective teacher student at UIN STS Jambi. Contributors were requested to contribute their own competency on the rightness of the VoQ for assimilating in UIN STS Jambi and to give their competency in which BP these verses might be assimilated. A built survey involved of 150 VoQ was rummage-sale to convey out. Outcome of research was: Kinematics 30 (20%), Dynamics 28 (18.67%), Momentum 16 (10.67%), Work-Energy 13.67 (9.11%), Motion 15.33 (10.22%), Fluid 16 (10.67%), Heat 3 (2%), and the rest 28 (18.67%). Based on the consequences of this study, it is acclaimed that Assimilated VoQ-Physic Instruction approach might be UIN STS Jambi curricula-based.

1. Introduction
The Qur’an as a sacred book of Muslims brings a very deep influence to the life of a Muslim. The Al-Quran is the essential holy manuscript of Islam [1]. Muslims trust the Al-Quran chosen the manuscript of heavenly control and bearing for manhood [2] and reflect this Arabic manuscript designate the last exposé of Allah. Islam grips that the Al-Quran remained transcribed by Allah and transferred to Muhammad by Gabriele (as the angel) ended a retro of 23 centuries [3]. Belief has great controls on completely features of lifetime [4].

Allowing to Einstein, as it is mentioned [6] “knowledge lacking belief is lame. Belief lacking knowledge is sightless”. Therefore, a construction between knowledge and belief would be reflected while Muslims are trained knowledge hence knowledge cannot but principal out conferring to one's faith promises and standards [7]. Since an Islamic standpoint, such reflection is an important single aimed at Islamic schooling, i.e. knowledge schooling or science education (SE). Consequently, Assimilating VoQ...
addicted to Muslim University Knowledge Programs approximating the knowledge curriculum of State Islamic University Sulthan Thaha saifuddin Jambi is crucial aimed at instruction Muslim students especially prospective physic teacher to take compatibility sandwiched between Al-Qur’an as Islamic resources besides knowledge to interpretation. Therefore, the determination of this research remained to define the capability of professors in assimilating VoQ on basic physics (BP) learning at STS Jambi UIN.

Islam procedures a background of various features of Moslems lifecycle. It is not a belief in the identical intellect that extra beliefs are [8]. Therefore these instructions remained the key reason elsewhere the remaining influence of Muslim experts to fellow’s knowledge, society then community accomplishments [9]. Accordingly, such influence of belief is reproduced on be alive, beliefs, then scientific literateness of Muslims students, especially candidate’s physics teacher. Consequently, together with VoQ addicted to university’s resolve allow Muslims learners.

Since Islamic standpoint, Al-Qur’an as a scripture and a stand-up wonder is “the preceding accurate expression of Allah the wise, which was exposed to Muhammad as the last prophet in the 7th period complete the Messenger, that is Gabriel [10]. It is, Al-Qur’an, aimed at Moslems, a key foundation of Islam besides the total detail and nonentity remained misplaced. Founded on such detail, knowledge would be trained in bright of Islamic instructions, and might not be separately after its instructions chiefly the instructions of Al-Qur’an. Consequently, teaching in the Muslim domain, mostly physics education and especially on basic physics lessons, would be transformed founded on this detail, uncertainty here is a resolve.

Constructed proceeding such supposition, assimilation sandwiched between togetherness of Allah the Huge, and ordinary awareness’s would be unavailable into explanation as a theoretical outline and rational standpoint outside the learning scheme of Muslim society [11]. This resources instruction and education approximately physics education, then Islam resolve not principal to progress Islamic society, without a mixture amid together of them remains successfully complete. On the extra term, creation society to Islamic civilizations requirements focused struggles to Islamize the physic education, i.e. transformation and reorganizing all acquaintance castigation to be companionable through the ideologies of Islam, in graceful of Al-Qur’an and the al-Hadist in a way that improves the faith of Allah’s togetherness [12]. This standpoint, consequently, might successfully and expansively be charity as an instrument to lecture the present national of the natural (science) knowledge instruction in Muslim society. Islam ascribes such a countless position to knowledge and instruction [13]. Accordingly, owing such Islamic teachings, numerous countless worldwide Muslim experts around ended thousand centuries previously remained at the front of unscientific experts lacking always charismatic up their faith [14]. Furthermore, [15] generally stated that contemporary acquaintance’s containing physics education are mentioned to Muslim expert.

Though Islamic standpoint aimed at schooling popular the Islamic society takes occupied thoughtlessness on numerous educations, barely this problem was deliberate mostly trendy the State Islamic University of Sulthan Thaha Saifuddin (STS) Jambi. Through orientation toward the literature criticisms, various requests require emphasized the requirement of assimilating Islamic instructions (verses of Al-Qur’an) addicted to instructive syllabuses mostly science and knowledge programs [16]. However, here is a cavity in the State Islamic University (STS) Jambi current works contract through this problem. Hence, this research effort to seal such a cavity through improvement appropriate VoQ record to be involved in the prospective Physic teacher instruction.

In circumstance of assimilating VoQ in the State Islamic University (STS) Jambi, here are four prototypes are recommended [17] aimed at assimilated university program: influence prototypical, preserving prototypical, alteration prototypical and policymaking prototypical. Together influence prototypical and preservative prototypical are split program. Split program prototypical is fewer appropriate for assimilating VoQ in BP instruction for the reason that its dichotomy standpoint to lifecycle. Therefore dichotomy offerings lifecycle as a two portions: portion to dedicate Allah, then the additional to help certain things [18]. Improbable, the “systematic” program is improved [19]. By the VoQ as a influence prototypical [20]. Equally, alteration prototypical can too assist aimed at assimilating
VoQ inside each topic of the BP and undergraduates resolve task to contemplate judgmentally to appreciate the associations amid the VoQ and physic concepts.

Physics is a part of knowledge or science that studies natural phenomena and relationships among these phenomena [21]. Hence, as a prototypical, assimilating of the VoQ into prospective physic teacher in the State Islamic University (STS) Jambi can be reached by: classifying the suitable VoQ aimed at assimilating them inside the BP substantial (1); classifying the subjects, components, instructions, and actions that are appropriate aimed at assimilating the VoQ inside them (2); formulating lecturers, mainly BP lecturers, who are estimated to current the Islamic standpoint inside their instructions, somewhere potential (3); each BP topics: Kinematics, Dynamics, Momentum, Works-Energy, Motion, Fluid and Heat have to present-day starting from an Islamic standpoint (4) [22].

As cited previous, Islam is a way of life aimed at Muslims. It is supposed if Islamic instructions remain honestly accomplished and assimilated to the current carrying out as well as supremacy construction in instruction, mainly for prospective physic teacher, the upcoming of Islamic technical excellent phase drive embellishment once more. Nevertheless, the objective of instruction the Al-Qur’an, as a key foundation of Islam, in numerous Muslim society is just to allow undergraduates of altogether eternities to recite, deliver, plus learn by heart the Hallowed Al-Qur’an.

Additionally, particular knowledge in some present knowledge course book of Muslim society has remained placed in a way that clues to misunderstanding on the Islamic belief. Aimed at occurrence, 'law of maintenance of mass' which remained interpreted addicted to Arabic verbal [23]. Furthermore, while the Islamic standpoint aimed at instruction in Muslim society has been occupied thoughtlessness of various lessons, barely this subject was planned mostly in UIN STS Jambi. Hence, these revision efforts to discovery the VoQ which are appropriate to be assimilated in all BP topics in the UIN STS Jambi. Definitely, the purpose of this research is to response the next problem that is what is the VoQ that are appropriate to be assimilated in the BP lesson?

As distant as this research is worried, it distributed through the assimilating VoQ in the UIN STS Jambi. Pervading VoQ in BP programs clues to excessive qualities. The highest quality exists that such pervading resolve allow Muslim undergraduates to recognize their Designer through investigation association amid world symbols besides Qur’an which resolve reinforce their belief of Allah's singleness. Furthermore, pervading VoQ in the science programs will empower Muslim undergraduates to diagnose the destructive belongings of the incorrect statement that Al-Qur’an controverts with science (physic). Formerly undergraduates can castoff such a deception of paradox amid Al-Qur’an and science or knowledge [24].

Correspondingly, pervading VoQ in BP programs empowers Muslim undergraduates of improving some misunderstandings on the Al-Qur’an and Islamic belief additionally as science of physic. Aimed at case, term of 'litmus', an optical meter which is red in acid substance as well as blue in alkali substance [25]. This word was declared in some information undergraduate's workbooks [26] in a way that indications to misunderstanding on the Islamic belief (i.e. it was declared as a 'sun worshiper'). Henceforth 'litmus', as a being, has not ever adored everything, but Allah. The enormous. Allah, the enormous said: "The seven paradises then the world plus whatsoever is in them promote Allah then there is not an object excluding that it promotes [Allah] through His recommendation, nonetheless you do not comprehend their [approach of] promoting. Certainly, He is always forgiving and forbearing" (44:17).

In this situation, [27] recommended that this word be able transformed hooked on 'sun flower' or else 'sun lover'. Furthermore, emerging Muslim undergraduates' dissimilar thoughtful panaches (i.e. think critically, imaginative thinking etc.), scientific literateness plus conservational consciousness determination be found as a consequence of pervading VoQ into NSs (Natural Science) curricula [28]. In this context, natural science also includes basic physics (BP) taught in college. Even though the Islamic standpoint for instruction in Islamic domain has stayed occupied hooked on deliberation of various lessons, barely this concern was planned primarily in the perspective of assimilating VoQ into BP. Although some investigators [29] endeavoured to advance a agenda for assimilating awareness of the coherence of Allah inside the college programs of Islamic domain, others existing an Islamic viewpoint on systematic approaches of instruction and learning natural science (BP). In later of this
situation, [25] established an Islamic Complete Prototypical for Ecological Instruction grounded on the Islamic viewpoint.

As distant as endorsement of the innovation as well as compatibility of the blessed Al-Qur’an through acquaintance is worried, [26] complete a stimulating contrast amongst heavenly principles in bright of systematic understanding. Consequently, he composed selected scriptures’ manuscripts, Al-Qur’an, Bible, an also Torah. As respect to the Al-Qur’an, systematically he showed that VoQ compact with systematic marvels as suggestion that Al-Qur’an is the expression of Allah then is companionable with natural science (physic) too [28]. In the identical situation, [27] likewise, mentioned particular VoQ then branded them hooked on eleven groups (i.e. space science, physics, natural features, geology, and overall acquaintance.) as an suggestion that Al-Qur’an is actually the conversation of Allah, the Huge, which is irrefutably compatible with acquaintance. On the extra pointer, some lessons used expressive study to define the Islamic viewpoint in the colleges’ programs in particular Muslim regions [28].

Discovered Egyptian awareness educators’ viewpoint on faith and awareness inside the situation of Islam [28]. He [28] presented that contributors observed that "the Qur’an remained a manuscript for regulation, not even handed for researchers, nevertheless for altogether humanity in wholly features of lifetime, containing in what way humanity would pursue systematic, experimental awareness, what approaches he would practice, and then what morals he would keep an eye on". Additional lessons charity semi-experimental projects to explore the usefulness of assimilating VoQ in instruction and scholarship awareness. In this situation, unalike lessons discovered that assimilating VoQ in instruction and scholarship awareness indications to an optimistic result on the consequences of awareness instruction aimed at Muslim undergraduates [7] endeavoured to control undergraduates’ enthusiasm toward study awareness inside spiritual socio-cultural situation. They hand-me-down surveys to gather documents to discovery available the awareness of Muslim undergraduates in the direction of awareness- faith collaboration and approach to awareness. Consequences of this education designated that Muslim undergraduates clamp an optimistic outlooks to awareness and faith, also.

2. Methods

These research second hand quantitative plus qualitative study methods that require generally remained rummage-sale in the instructive arena then must a diversity of approaches which are suitable incomes to advance the thoughtful of the instructive concerns [6]. It purposes to discovery available the VoQ that could be assimilated in the BP content. In responsibility so, VoQ list, as a main phase of this research, was established. This phase was supported available by a collection effort, fundamentally going on Al-Qur’an plus associated nonfictions, besides initiation investigation aimed at the VoQ, also. This research includes two stages. The first stage is the stage of alignment analysis between VoQwith related topics on BP. This stage involves physics experts /physics education experts as much as two people and interpretation of Al-Qur’an as much as one person. In the first stage to ensure that all topics related to BP have relevance to the verses of Al-Quran. the results of stage one obtained 150 verses of the Qur'an that are considered in accordance with the topics contained in BP, so that it can be integrated, on learning BP in UIN STS Jambi.

After obtained 150 verses of the Qur'an in accordance with BP, then proceed to enter the second stage, which is integrating the verses of the Qur'an into the lesson plan. The integration of the verses of Al-Qur'an into the material of BP is done by physics education lecturer at UIN STS Jambi consisting of three people, with each having more than 2 years’ experience. To three lecturers as the participants were given 150 verses of the Qur'an, and then asked the three to draw up BP’s learning plan involving the verses. The time given for preparing the learning plan is 10 days. The instrument used in this study is an observation sheet that is used to calculate the number of VoQ that can be integrated into BP programme by professors. After being intended, it is then verified by experts (Qur’an interpretation) to see the accurateness of the Qur’an verses used in the learning program. After all participants return the results of its work, then continued assessment and analysis of data related to the work. Data analysis using percentage patterns, ie what percentage of verses that can be assimilated on a particular topic on
Then from the three participants will know which BP topic has the highest percentage and lowest. Presentation of data in table form to make it easier to understand.

3. Result and Discussion
As described overhead, in these research elaborate three physics lecturers at UIN STS Jambi as contributors to assimilate VoQ into their BP. Based on the consequences of the assessment of the lesson plans that have been prepared by the three lecturers, obtained data distribution paragraph VoQ pad on each BP topic as Table 1 below:

| Topics of BP   | VoQ assimilated | Average | Percentage |
|----------------|-----------------|---------|------------|
|                | A   | B   | C   |         |         |
| Kinematics     | 38  | 21  | 31  | 30,00   | 20,00   |
| Dynamics       | 37  | 23  | 24  | 28,00   | 18,67   |
| Momentum       | 20  | 12  | 16  | 16,00   | 10,67   |
| Work-Energy    | 16  | 12  | 13  | 13,67   | 9,11    |
| Motion         | 16  | 16  | 14  | 15,33   | 10,22   |
| Fluids         | 13  | 13  | 22  | 16,00   | 10,67   |
| Heat           | 1   | 3   | 5   | 3,00    | 2,00    |
| The Rest       | 9   | 50  | 25  | 28,00   | 18,67   |
| Total          | 150 | 150 | 150 | 150,00  | 100,00  |

Based on table 1 and figure 1 above, it can be seen that the highest VoQ assimilation is on kinematic topics with an average of 30 or about 20%, while the lowest is the topic of heat with an average of 3 or about 2%. This shows that kinematics is a topic that has the strongest proximity to the Qur'an, so that all three lecturers are able to assimilate VoQ more easily than other topics. As for heat, it is a topic that has the weakest proximity, so the three lecturers “feel” difficult to assimilate.

In adding, from the above data it can also be understood that there are still some VoQ that failed to be assimilated by lecturers. Each lecturer has the remaining VoQ to be assimilated. This shows the ability of every lecturer in assimilating VoQ into BP is different. The higher the residual VoQ, indicating the lower the lecturer's ability to assimilate VoQ into the BP they teach and the lower the remaining VoQ, the higher the lecturer's ability to assimilate.

Based on the data above, the best assimilating ability is lecturer A. Of 150 VoQ, A lecturer leaves 9 verses. That means there are 141 verses or about 94% VoQ can be assimilated. The lowest ability is the lecturer B with VoQ remaining 50 pieces, thus only about 100 verses or 66.67% of the verses are capable of assimilation. But this can still be called good.

Referring to the above data, it can generally be said that VoQ can be assimilated into BP very well. This finding also shows that between the Qur'an and science has a very strong relationship. This is in line with the findings of Bucaille [22] that VoQ has miracles and is systematically appropriate and in line with the science of medicine, aerospace, ecology and physics.

As recommended by Al-Hadabi [19] that VoQ should be taken into consideration in developing science curriculum in every educational institution. It will also encourage enhancing critical thinking, creative thinking. Brummelen [8] mentions that the construction of knowledge and belief in a Muslim will reflect the strength of his knowledge and faith. With the assimilation of VoQ into the science especially Physics, it will give birth to scientists who are adaptable and closer to God. Proximity to God (Allah) will certainly have a positive impact on the management of nature, as well as the purpose of human creation itself. This is in line with the opinion of Oyaid [4] that belief and faith have the ability to control human life both in terms of science, and socio-culture. In addition, Einstein, as mentioned by Naik [7], that his lack of belief is paralyzed. Thus the assimilation of VoQ into BP can bring positive
changes to college students. It is also mentioned by Nasr [1] that the construction between VoQ and Science (Physics) is the main reason for giving birth to Muslim scholars who possess knowledge and benefit the community.

The result of this study also shows that the Qur'an as a view and life guidance for Muslims really can answer the question of life included in natural scholarship. On the other hand, this result can also strengthen the level of faith and stability of a Muslim's faith in his holy book. Therefore, it is necessary to conduct further research to the values of the Qur'an in other modern human life.

4. Conclusion
Referring to the data and discussion results as described above it can be concluded that the verses of the Qur'an can be integrated into the basic physics (BP) lessons at the State Islamic University of Sultan Thaha Saifuddin Jambi very well by the participants. The result of integration between BP and VoQ is as follows: Kinematics 30 (20%), Dynamics 28 (18.67%), Momentum 16 (10.67%), Work-Energy 13.67 (9.11%), Motion 15.33 (10.22%), Fluid 16 (10.67%), Heat 3 (2%), and the rest 28 (18.67%). Based on the consequences of this study, it is acclaimed that Assimilated VoQ-Physic Instruction approach might be UIN STS Jambi curricula-based.

Based on the result of assimilation among the verses of Al-Qur'an (VoQ) into the learning of physics as has been done by the three contributors overhead, then this can be used as stimulus for the professors and lectures in other Islamic University in Indonesia. In addition, further research is needed related to the impact of the integration of Qur'an verses in the subject matter on the level of faith and the students' ability in terms of creativity, as well as the ability to solve problems.

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