

Project Based Learning In PAI Subjects To Improve Student Collaboration And Creativity Skills

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Abstract

Project Based Learning has become an increasingly popular approach to improving students' skills in a variety of subjects. This research explores the implementation of Project Based Learning in Islamic Religious Education subjects to improve students' collaboration and creativity skills. The research method used was a classroom action study involving two classes of junior high school students as research subjects. During the research period, students are involved in projects based on PAI topics that are relevant to their daily lives. Data was collected through observation, interviews and analysis of student portfolios and carried out. The research results showed a significant increase in students' collaboration skills, such as the ability to work together in teams, effective communication, and conflict resolution. Apart from that, student creativity is also stimulated through project-centered learning, with innovative ideas and solutions generated in the context of PAI material. These findings confirm that Project Based Learning can be an effective approach in improving students' collaboration and creativity skills in the PAI learning context. The practical and pedagogical implications of these findings are discussed to support the development of curricula that are more student-oriented and relevant to current needs.

Keywords: Project Based Learning, collaboration skills and creativity

Abstrak

Pembelajaran Berbasis Proyek telah menjadi pendekatan yang semakin populer untuk meningkatkan keterampilan siswa dalam berbagai mata pelajaran. Penelitian ini mengeksplorasi penerapan Project Based Learning pada mata pelajaran Pendidikan Agama Islam untuk meningkatkan keterampilan kolaborasi dan kreativitas siswa. Metode penelitian yang digunakan adalah studi tindakan kelas dengan melibatkan dua kelas siswa SMP sebagai subjek penelitian. Selama masa penelitian, siswa dilibatkan dalam proyek berdasarkan topik PAI yang relevan dengan kehidupan sehari-hari. Pengumpulan data dilakukan melalui observasi, wawancara dan analisis portofolio siswa. Hasil penelitian menunjukkan adanya peningkatan yang signifikan pada keterampilan kolaborasi siswa, seperti kemampuan bekerja sama dalam tim, komunikasi efektif, dan resolusi konflik. Selain itu, kreativitas siswa juga dirangsang melalui pembelajaran yang berpusat pada proyek, dengan ide dan solusi inovatif yang dihasilkan dalam konteks materi PAI. Temuan ini menegaskan bahwa Project Based Learning dapat menjadi pendekatan yang efektif dalam meningkatkan keterampilan kolaborasi dan kreativitas siswa dalam konteks pembelajaran PAI. Implikasi praktis dan pedagogis dari temuan ini dibahas untuk mendukung pengembangan kurikulum yang lebih berorientasi pada siswa dan relevan dengan kebutuhan saat ini.

kunci: Pembelajaran Berbasis Proyek, keterampilan kolaborasi dan kreativitas

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INTRODUCTION

The project-based learning approach is not only oriented towards assessing the final results of the learning process, but rather an active role in the thinking process carried out collaboratively by a group of students in solving a problem (de la Torre-Neches, et al, 2020). The Project-Based Learning approach has been proven to be effective in developing students' collaboration and creativity skills, because project-based learning is not centered on the teacher, but is more centered directly on the students (Ibrahim, et al, 2022). Studies show that students involved in Project-based learning show significant improvements in active and critical thinking skills and are able to apply their knowledge in

complex situations (Prayogi, et al, 2021). This places students as active agents in the learning process and allows students to contribute significantly to solving problems. Students not only learn facts and theories, but they also apply them in the context of real projects in everyday life (Santayasa., et al, 2020), so that students can practice directly related to the theories they have studied. At school, students can collectively contribute to completing their assignments well.

Project-based learning is widely applied to several subjects in schools because this learning model is considered effective for increasing collective student activity (Rofik, 2022), because this method is very good for clarifying and applying existing theories. Several literature studies show that project-based learning methods stimulate student activity by providing opportunities to explore ideas and create innovative solutions to complex problems. This project allows students to think actively to solve various complex problems. This is in line with the results of research conducted by (Chen, 2023), entitled Effect of project-based learning on development of students' creative thinking. research conducted by (Yamin, 2020), with the title Project based learning to enhance creative thinking skills of the non-science students. and research conducted by (Prihatin, 2021) with the title The analysis of students' creative thinking skills through the implementation of the project based learning model in social studies learning which states that the project based learning model is able to encourage students to be active and collaborative in solving problems . In this discussion, what differentiates this research from other research is that the application of project-based learning can make students have collaborative cohesion in teams/groups and increase creative thinking patterns in answering various problems presented.

The aim of this research is to analyze project-based learning which is applied to increase student collaboration in groups and increase student creativity in answering various complex problems. The benefits of implementing project-based learning can make learning effective and efficient. Project-based learning is able to involve students actively and innovatively in the learning process through real projects that are relevant to their lives. This can encourage students to improve teamwork, share ideas, and find creative solutions to the problems they face.

METHODS

In this modern era, project-based learning has become an important choice in building student creativity in the learning process, because this project-based learning approach is very important for students to learn collaboratively in order to explore certain ideas according to each student's ability to complete a task. given by the teacher. In this discussion, researchers conducted research at SMP N 1 Sukowono because several teachers at that institution implemented a project-based learning approach.

This research uses a mixed-methods research design to combine quantitative and qualitative approaches in evaluating the effectiveness of project-based learning methods (Project-Based Learning) in improving students' collaboration and creativity skills. Researchers took a sample of 80 students who were divided into two groups in different classes. The two groups consist of an

experimental group (40 students) who will apply Project Based Learning and a control group (40 students) who will use traditional learning methods.

Table 1. Sample Test

Information	Control Group	Experimental Group
Learning Methods	Traditional Learning	Project Based Learning
Average Value	40	40

The stages in this research begin with the preparation stage by developing a project-based learning module in accordance with the applicable curriculum. This learning module is given to teachers who will carry out experiments using a project-based learning approach. The research was carried out through a pre-test stage to measure their initial collaboration and creativity skills, then implementing project-based learning within a period of three-four months, then in the final stage all students will undergo a post-test to measure changes in their collaboration and creativity skills.

The instruments used in this research were in the form of questionnaires, and creativity tests on students as well as interviews with teachers who carried out the learning process using project-based learning. Data validity tests are determined by various categories of information that allow comparison and also testing of data. The data used is not only objective but also subjective so that conformity can be obtained which contains the truth

RESULTS AND DISCUSSION

The results of the research show that project-based learning implemented at SMPN 1 Sukowono can increase student collaboration and creativity, as per the data obtained from the following interview results: Mrs. Widiati revealed that project-based learning is very appropriate to be applied in the learning process at school. According to him, this method has the advantage of directing students to work collaboratively, effectively and creatively when completing their assignments. Saiful emphasized that Project Based Learning is not just a teaching method, but also an approach that can develop various important skills in students, especially in terms of teamwork and creativity.

Mr Hartono provided a similar view, noting a significant increase in students' collaboration and creativity skills after implementing Project Based Learning. He observed that students discussed more often, helped each other, thought logically, and debated constructively. Hartono gave a concrete example of a greening project carried out by students, where they had to work together in determining suitable types of plants, designing the shape of the pot, and thinking about how to care for the plants. This project shows how PBL can teach students to work together effectively and think creatively in facing real challenges.

In an interview with Mrs. Anisa, a teacher at SMPN 1 Sukowono, it was revealed that there had been a significant change in the level of student involvement in the learning process. It is said that

these students become more enthusiastic and active in learning activities. They engage in teamwork to complete assigned projects, which in turn helps improve their collaborative skills. In addition, participation in these projects also provides opportunities for students to develop the ability to manage time, solve problems, and communicate effectively.

Overall, these three interviews show that Project Based Learning has great potential to improve important skills in students, especially in terms of collaboration and creativity, by providing a real context that makes learning more relevant and engaging

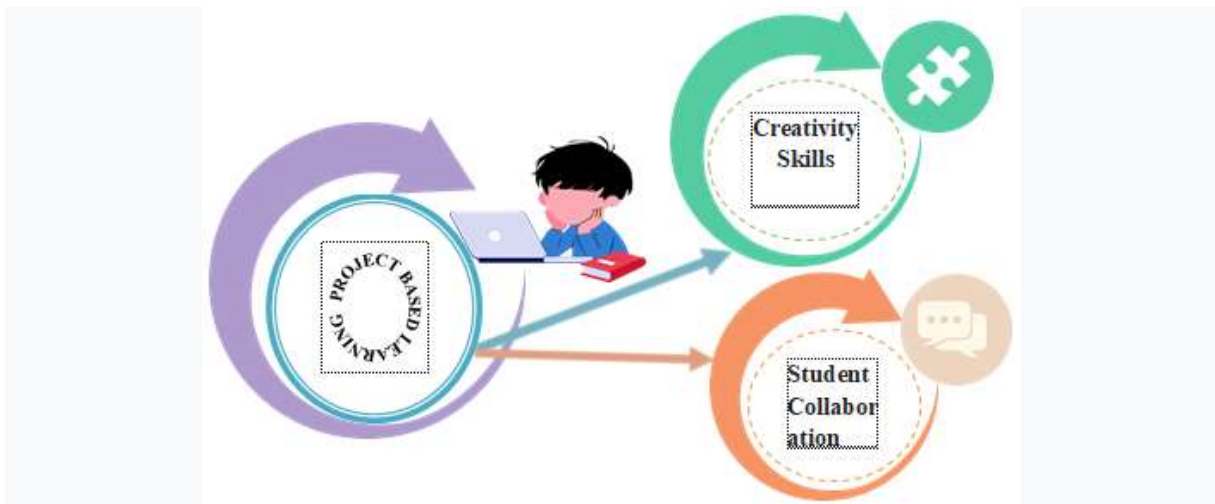
Project-based learning is a teaching method in which students learn collaboratively, creatively and actively involved in interesting and relevant projects (Sappaile, et al., 2023; Susanti, 2023; Saputra, 2023; Ramadhan, 2023; Karo, et al, 2023; Latip, et al, 2023; Solissa, 2024) the aim of the project-based learning approach is to help students be active and creative in solving various problems collaboratively (Andriyani, et al, 2022)

Collaboration skills are the ability to work effectively with others to achieve common goals. This involves various aspects, such as communication, cooperation, conflict management, and the ability to contribute and receive input from team members. (Cyrious, et al 2023) Collaboration skills are very important in many contexts, both in educational environments, the workplace, and in everyday life (Martzoukou, 2020)

The components of collaboration skills are effective communication language, cooperation, conflict management and decision making (Fisher, et al, 2020). The benefit of collaboration skills is that they can increase team productivity, because team members can complement each other's weaknesses and optimizing each other's strengths. (Montrief, et al 2021)

Creativity is the ability to produce new, original and valuable ideas that can be implemented in various contexts (Ferreira., et al. 2020). It involves a flexible and inventive thought process that allows a person to see things from different perspectives and find innovative solutions to problems or challenges.

There are several components to creativity, including: originality, fluency in thinking, flexibility and elaboration (Handayani, et al, 2021). Creativity possessed by students allows individuals to find innovative and effective solutions to complex problems. (Sawyer, et al, 2024) Creativity can be applied through projects, open-ended assignments, and extracurricular activities that encourage students to think creatively and innovatively (Juškevičienė, et al. 2021). By developing creativity, individuals can increase their ability to innovate, solve problems, and contribute meaningfully in various aspects of life



Picture 1 .Research Result

From research carried out by researchers, the Project Based Learning Method has been proven to be an effective approach in improving students' collaboration and creativity skills. This approach places students at the center of learning, allowing them to actively engage in projects that require problem solving, teamwork, and creativity to achieve set goals. In this discussion, we will highlight how Project Based Learning contributes to the development of students' collaboration and creativity skills

Increasing Student Creativity:

1. Challenge Projects: Projects in the Project Based Learning method are often designed to challenge students to think creatively, They are encouraged to develop new ideas, experiment with different approaches, and explore various possibilities. This process stimulates students' creativity and helps them understand and solve complex problems, this is in accordance with what is said by (Sawyer, et al, 2024)
2. Independence: Project Based Learning Method gives students more control over their learning process. They have the freedom to explore their own interests, developing projects that spark their creativity. By allowing students to have independence in selecting and carrying out projects, the Project Based Learning method allows them to explore their own ideas in greater depth.

Improve Collaboration Skills:

1. Teamwork: In the Project Based Learning method, students are often placed in groups or teams to complete projects. This allows them to learn to collaborate with others, share ideas, appreciate differences, and complete tasks together. Through this collaboration, students learn how to work in a productive team environment, a skill that is critical in their future professional and personal lives. This is in accordance with what was said by (Cyrrious, et al 2023)
2. Active Involvement: In the context of Project Based Learning, students are actively involved in the learning process, both with fellow team members and with the teacher/facilitator. They are invited to exchange ideas, provide feedback, and find solutions together. This kind of active engagement

strengthens communication and negotiation skills, which are important aspects of effective collaboration.

CONCLUSION

Thus, it can be concluded that the Project Based Learning method is effective in improving students' collaboration and creativity skills. Through hands-on experience in completing challenging projects, students not only learn how to work together in teams, but also develop the ability to think critically, solve problems, and generate innovative ideas. This equips them with invaluable skills to succeed in an ever-changing and diverse world

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