

Pedagogical Principles in Learning and Its Impact on Enhancing Motivation of Students

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Abstract

Pedagogical principles are an important part of the learning and teaching process that is important for students to perform effective and efficient learning activities. The pedagogical principles are important for students to learn the curriculum more effectively and also help them to learn new skills conveniently. Implementing pedagogical principles in learning helps to motivate students towards their academic careers. There are different types of pedagogical principles that help to improve the overall learning process of students and help them to get success in their academic and professional life as well. Pedagogical principles enable students to think in different ways and act beyond the traditional method to get benefited in the academic field. Pedagogical principles are important to enhance productivity and creativity and increase critical thinking among students. This study aims to evaluate the pedagogical principles of learning and their impacts on enhancing motivation among students. This study also emphasises the importance of motivation among the students and also tries to determine different strategies to increase motivation among the students. Secondary qualitative research is followed here in this study to improve the authenticity of the study. Thematic analysis of the topic also gives a clear understanding and that helps to make decisions more relevant.

Keywords

Academic Field, Enhance, Learning, Motivation, Pedagogical Principle, Students.

INTRODUCTION

Pedagogical principles consist of different methods and techniques of teaching that are important for students to perform meaningful learning activities. The pedagogical principles are important for students to learn the curriculum and other skills more conveniently. Integration of pedagogical principles in learning helps to improve the overall learning process of students and that is important to enhance motivation among the students [1]. It also enhances students' level of participation and contribution during the learning process. A well-structured pedagogy is important for students to get an education using a range of learning styles. Consequently, it improves motivation among the students and ultimately helps them in their future [2]. There are different pedagogical principles that are interconnected with each other and provide a framework for a great learning process for students that are important to enhance learning motivation among students. Hence, the purpose of the study is to find out the key principles of learning and their impact on enhancing motivation among people.

AIM OF THE STUDY

Pedagogical principles are important in the learning process of students and that helps to enhance motivation among the students. The aim of the study is to understand basic pedagogical principles and their impact on enhancing motivation among people.

Objectives

- To evaluate pedagogical principles of learning

- To identify the impact of motivation to enhance learning among the students
- To determine different strategies to enhance motivation among the students
- To understand the impact of pedagogical principles in enhancing motivation among the students

RELEVANCE OF THE STUDY

Pedagogical principles play a significant role in improving the overall learning process of students and it is important for students to learn their curriculum and other skills in an easy and convenient way. Pedagogical principles are focused on "teaching and learning arrangement" and methods that are important to improve the learning environment for the students and it is also useful for students to learn different skills and improve their attitude toward students. Pedagogical principles are concepts of education that refer to the basic framework or structures that need to be followed during the learning process of students. Well-structured pedagogical principles are required for every student to improve their learning ability and get success in the academic field. Pedagogical principles deal with the overall learning process of students and it has a huge role in enhancing confidence and motivation among the students and which makes this research relevant in the educational context.

MATERIALS AND METHODS

Research Design

The research design refers to the structural framework of

research that is helpful to perform the research study in a systematic way. It is also an integral part of a research methodology that is important to formulate and structure the research study [3]. A well structured research design is helpful for the study to improve the overall effectiveness and improve the efficiency of the study. It is also important to improve the relevance of the study. The exploratory research design is followed here in this study to formulate and make an outline of the research study. The exploratory research design through a secondary data collection procedure improves the efficiency of the study along with the effectiveness of the research.

Research type

The selection of research type is an important part of a research study that has the ability to formulate overall procedure and improve the effectiveness of the research. An effective research type can improve the productivity of research and that is important to make research study more time efficient. Qualitative and quantitative are two major types of research that are widely used by researchers [4]. The qualitative research type is adopted in this study to enhance the efficiency of the research. Additionally, it also gives a clear understanding of pedagogical principles and their impact on enhancing the motivation among the students.

Research duration

This research has been conducted by understanding the main topic and collecting secondary qualitative data and analysing them with topic-oriented thematic analysis. However, while attaining the objectives, the entire process of research has been completed within 45 days.

Inclusion and Exclusion criteria

Inclusion and exclusion criteria are important for any research study which helps to improve the authenticity of the research and also makes the data collection process easy and convenient. It gives a clear understanding of which data need to collect and which data need to neglect during the data collection process.

Inclusion criteria

- Journals, articles, and newspaper articles are collected from authentic sources and date of publication for data collection.
- Sources that are published before 2018 are taken here for data collection.

Exclusion criteria

- Personal articles and blogs written in other than the English language are excluded from data collection.

Data collection and analysis procedure

The data collection process is the most important part of a research study that is also essential for the research study. The result of the research study totally depends on the data collection and analysis procedure [5]. Different types of data collection and analysis processes are there in the field of

research. The qualitative data collection and analysis process is followed in this study to improve the effectiveness and efficiency of the study. Secondary qualitative data collection and analysis gives a clear understanding of pedagogical principles and considering this the collected data have been evaluated for attaining the objectives.

RESULTS

Evaluation of pedagogical principles of learning

Pedagogy is an important process and technique that deals with learning and teaching procedures. Pedagogical principles are important to guide and develop structures of learning among students. It helps to improve the overall learning process among the students and makes an ideal environment for learning. There are different pedagogical principles that are useful to strengthen the teaching and learning process among students.

Motivation is the reason that drives students and teachers both in educational institutes. The motivations can be internal and external, internal motivation impulse comes from ourselves and external motivation impulse comes from another individual and is accepted by us [6]. External motivation in students is directly related to the skills of teachers and the student-teacher relationships. Teachers have to motivate students in learning by understanding the students' points of view and their interests.

Exposure is a process to transmit information among students. Positive exposure improves confidence among the students. In positive exposure, teachers have to give a wide range of knowledge about students' interests and that can help students to gain confidence in the classroom. In this principle, teachers need to introduce new content or summarise content that is already learned to improve the understanding of the students.

Practical activities are also important to improve the learning process of a student. Practice is one of the teaching-learning processes that help to strengthen the learned content and facilitate the process of memory [7]. Teachers are required to involve students in different activities practically that are learned before theoretically. It improves the understanding of topics more easily and conveniently.

Variation is also an important principle of pedagogy that teachers need to implement in their teaching process to improve students' engagement in the class. Sometimes teachers have discussed different concepts of students' interest in the classroom along with the curriculum to improve students' engagement in the classroom.

Positive relationships between students and teachers are also an important principle that is helpful to the overall learning process of students [8]. Good student-teacher relations and good collaboration of teachers with the students help to improve motivation among the students and that helps to change the attitude of students towards learning.

Relevance of content is also an important principle that

teachers have to follow during teaching. Teachers have to focus on topics that are related to the life of students and that are linked with knowledge of previous lessons otherwise students may feel isolated and lose interest in the class.

Impact of motivation in enhancing learning among students

Motivation is the first and foremost important aspect that leads people to perform any task or activity. Motivation has also a huge impact on the learning process of students. It is important for students to pursue activities of their choice and also helps them to learn their curriculum more effectively. Motivation is traditionally two types which include intrinsic motivation and extrinsic motivation. In the case of students, extrinsic motivations are affected more in their way of success.

Motivation is important to foster critical thinking and creativity: Students who are motivated enough can think more critically about a particular matter and that leads them to formulate creative ideas [9]. Motivated students are not more intelligent than other students but their need to find out the answers pushes their thinking and leads them to produce creative ideas.

Motivation cultivates self assurance among the students: When a student is truly motivated by an activity they have the less emotional and cognitive energy to focus on other social images. Motivated students are more likely to bounce back emotionally from low grades on tests or harsh criticism by teachers. Students with intrinsic motivation are not driven by criticism or fear of failure. This attitude helps the motivated students to cultivate themselves and ultimately helps to improve the learning process among the students.

Motivation is important in improving a sense of purpose among the students: Motivation among the students helps to improve a sense of purpose. When motivation comes intrinsically it always has a purpose to perform the activity and that builds a sense of purpose and leads students to their future [10]. This sense of purpose leads students to give motivation in the learning process and improves the learning process of students.

Motivation enhances the determination and efforts of the students: When a student is motivated whether it internally or externally they give their best effort to perform any task. This determination and effort give them ultimate success in their goal [11]. In the case of learning when a student is motivated enough they try to focus on study and give extra effort in study to perform well in academics and that helps to improve the overall learning process.

Strategies to enhance motivation among the students

Motivation is important to improve the learning process among students and it plays a significant role in improving confidence among students. Motivation is generally useful to encourage students to apply efforts in learning tasks and trying new approaches. There are different strategies that can improve motivation among students.

Build strong relationships: positive relationships

between students and teachers significantly lead to positive motivation and to greater achievements [12]. Students, who believe that teachers are not interested in learning report, have the more negative motivation and experience lower achievement in academic life. Hence, motivation among students can be improved by maintaining strong relationships between students and teachers.

Enhance task engagement and interest: Motivation among the students can be enhanced by increasing engagement towards the task. Students who are engaged with tasks and activities of their interest find learning easier. Engagement in tasks improves the motivation among the students which leads them to learn more easily. Therefore, teachers need to formulate activities and curriculums according to students' interests to motivate themselves in the academic field and help them to get success in the future.

Making students aware about the relevance and importance of learning: Motivation in a student can be improved by different procedures or strategies. Making students aware with relevance or importance of learning are the major strategy to improve motivation among the students [13]. Teachers have to be aware students about the importance of learning to motivate them in the learning process. The increasing challenge, of inviting students to personalise a topic and discussing universal human experience is the way to aware students of the importance of learning. Teachers also need to help students to explore their communities and have to tell them how their knowledge and concepts are used in the community. This gives students a purpose for learning and improves motivation among them.

Connect with students' values, identities and goals: Every student has their own personal identity, vision and goals. Teachers have to help students to connect their learning curriculums with their identity, vision and goals to motivate them towards the learning procedure [14]. When students see their learning tasks and activities are relevant to achieve their goals they feel motivated and engage themselves in learning.

Impact of pedagogical principles in enhancing motivation among students

Pedagogical principles are important for improving the overall learning process among the students and it has a huge impact on enhancing the motivation among the students. Pedagogical principles also help to improve confidence among the students and also help them to enhance the overall learning process. *Exposure to knowledge* is a pedagogical principle that has a huge impact on motivation along with the learning process of students. With the positive exposure to knowledge, teachers can motivate students to learn new skills and get success in academic and professional careers as well [15]. *Repetition and revision* is also a pedagogical principle that leads students towards academic success. Teachers and instructors repeat important topics and activities and revise them multiple times to improve the understanding of the students. A good understanding of a topic motivates students

towards learning and consequently leads students towards academic success.

Practical activities and practice is a pedagogical principle that is beneficial for enhancing motivation among the students. Practical activities on theoretical knowledge help to understand the topic clearly and practising it multiple times also improves the understanding. Improved understanding of any topic increases interest and also motivates students towards learning. **Constructive criticism** is also an important principle of pedagogy that helps to motivate students [16]. Some people consider criticism to have a negative impact on student's motivation but that is not true. Criticism impacts positively when it is justified and constructive. According to pedagogy teachers can constructively criticise a student and point out errors and drawbacks to make them perfect. It helps students to understand their errors and shortfalls and consequently motivate themselves towards learning.

Positive relationship management between teachers and students is a pedagogical principle that has the ability to motivate students towards learning. Students feel free to ask their study related doubts about their teachers without any hesitation when they have a good relationship with teachers. It helps them to motivate towards learning and gives them opportunities in the later future. **Satisfaction** is also a principle in pedagogical principle that has a direct relation with motivation. Following this principle teachers and school authorities develop a system of rewards for the students. That increases the sense of satisfaction among the students and consequently increases their motivation towards the learning process [17]. **Creativity** is a fundamental factor in pedagogy that describes teachers or instructors as having to be more creative at their work. They can organise different other activities in the classroom to motivate students towards learning.

DISCUSSION

Pedagogy is an important technique or pattern of learning and teaching that is important to guide and develop structural learning processes for students and give benefits to them to get success in academic and professional fields. It is also important to create a suitable learning environment for the students. Different pedagogical principles are present to improve the learning process of students. Motivation is the main reason that drives students and teachers both in an educational institute [18]. Teachers need to motivate students in learning by understanding the viewpoint of students. Exposure to knowledge is also a principle of pedagogy that helps to change the learning process of individual students. In positive exposure, teachers give a wide range of knowledge to the students and that enhances confidence among the students. This principle is to summarise the content that is already learned to improve the understanding of the students.

Practical activities are also important to improve the learning process of the students. Practice and practical activities are important to understand the topic deeply and also help to strengthen the learned content and facilitate the

process of memory. Teachers are also required to involve students in different activities practically that are also learned before theoretically. It improves the understanding of the topic more easily and conveniently. Positive relationships with students and teachers are also an important principle of pedagogy that is helpful to the learning process of students [19]. Good students-teacher relationships and good collaboration of teachers with the students also help to improve motivation among the students and that helps to change the attitude of students towards the learning. Relevance of content is also an important principle that teachers have to follow. Teachers also have to focus on topics that are related to the life of students and that is linked with knowledge of previous lessons otherwise students can feel isolated and lose interest in the class.

Motivation is the first and foremost important aspect that leads people to perform any task or activity. Motivation has a huge impact on enhancing the learning process among the students. Motivation is important to foster critical thinking and creativity among the students. Students who are motivated enough can think critically about different study related matters and that leads them to creative ideas. Eagerness to find answers to the questions of motivated people leads them to think critically and produce creative ideas. Motivation cultivates self assurance among the students [20]. Motivated students are more likely to bounce back in difficult situations such as low grades on tests and criticism by teachers. Motivation is important in improving the sense of purpose among the students. When motivation comes intrinsically it always has a purpose to perform the activity and that builds a sense of purpose and leads students in their later future.

Motivation helps to improve the determination and efforts of the students. In the case of learning, when a student is motivated enough they try to focus on studying and give extra effort to perform well in academics and that helps to improve the learning process of the students. There are different strategies to improve motivation among the people and these strategies include managing a good relationship between teacher and students, enhancing the interest in a given task, awarding students about the importance of learning and connecting students with their values and goals. These strategies help to enhance motivation among the students and that is important to improve the learning process of students.

Pedagogical principles have a huge impact on enhancing the motivation among the students and it is helpful to increase confidence among the students. Exposure of knowledge, repetition and revision is the most effective pedagogical principles that help to improve the learning process among the students [21]. Practical activities and practices are an important pedagogical principle that is beneficial for enhancing motivation among the students. Practical activities on previously learned topics help to improve the understanding of students and that is important for increasing motivation among the students. Positive relationship management is also an important principle that has a huge

impact on increasing motivation in learning among the students. Students feel free to ask their doubts to the teachers and that helps to improve their motivation. Satisfaction of students, creativity in teaching and constructive criticism by teachers also help students to improve motivation and these factors help students to get success in their academic and professional life.

CONCLUSION

Pedagogical principles are an important technique of learning and teaching that is important to improve the learning process of an individual. This principle also helps to increase creativity, productivity and critical thinking among the students. Pedagogical thinking also helps to improve motivation among the students towards learning and get benefits in their academic and professional life. Motivation, exposure to knowledge, practical activity, variation, and strong relationships between teacher and students are important principles in pedagogy that is important to formulate the learning process of students. These principles are important to change the way of learning and give students an advantage in their academic and professional life. Motivation is an important factor in learning that has the capability to improve the learning process among the students. Motivation is important to foster critical thinking and creativity, cultivate self assurance among the students, improve a sense of purpose among the students and motivation enhance determination and efforts of the students. Different strategies are also there that can increase motivation among the students. Creating strong relationships with students, enhancing task engagement, awaring students about the importance of learning and connecting students' values and goals with learning are the main strategies that can increase motivation among the students.

REFERENCES

- [1] Blau, I., Shamir-Inbal, T., & Avdiel, O. (2020). How does the pedagogical design of a technology-enhanced collaborative academic course promote digital literacies, self-regulation, and perceived learning of students?. *The internet and higher education*, 45, 100722. <https://doi.org/10.1016/j.iheduc.2019.100722>
- [2] Zamora-Polo, F., Corrales-Serrano, M., Sánchez-Martín, J., & Espejo-Antúnez, L. (2019). Nonscientific university students training in general science using an active-learning merged pedagogy: Gamification in a flipped classroom. *Education Sciences*, 9(4), 297. <http://dx.doi.org/10.3390/educsci9040297>
- [3] Abutabenjeh, S., & Jaradat, R. (2018). Clarification of research design, research methods, and research methodology: A guide for public administration researchers and practitioners. *Teaching Public Administration*, 36(3), 237-258. <https://doi.org/10.1177/0144739418775787>
- [4] Rutberg, S., & Bouikidis, C. D. (2018). Focusing on the fundamentals: A simplistic differentiation between qualitative and quantitative research. *Nephrology Nursing Journal*, 45(2), 209-213. https://www.researchgate.net/profile/Shannon-Rutberg/publication/328250766_Focusing_on_the_Fundamentals_A_Simplistic_Differentiation_Between_Qualitative_and_Quantitative_Research/links/5eea3789299bf1faac5e6bfb/Focusi
- [5] Abutabenjeh, S., & Jaradat, R. (2018). Clarification of research design, research methods, and research methodology: A guide for public administration researchers and practitioners. *Teaching Public Administration*, 36(3), 237-258. <https://doi.org/10.1177/0144739418775787>
- [6] Legault, L. (2020). Intrinsic and extrinsic motivation. *Encyclopedia of personality and individual differences*, 2416-2419. DOI 10.1007/978-3-319-28099-8_1139-1
- [7] Handelzalts, A. (2019). Collaborative curriculum development in teacher design teams. In *Collaborative curriculum design for sustainable innovation and teacher learning* (pp. 159-173). Springer, Cham. https://doi.org/10.1007/978-3-030-20062-6_9
- [8] Liebowitz, D. D., & Porter, L. (2019). The effect of principal behaviors on student, teacher, and school outcomes: A systematic review and meta-analysis of the empirical literature. *Review of Educational Research*, 89(5), 785-827. <http://doi.org/10.3102/0034654319866133>
- [9] Shubina, I., & Kulakli, A. (2019). Pervasive Learning and Technology Usage for Creativity Development in Education. *International Journal of Emerging Technologies in Learning*, 14(1). <https://doi.org/10.3991/ijet.v14i01.9067>
- [10] Korpershoek, H., Canrinus, E. T., Fokkens-Bruinsma, M., & de Boer, H. (2020). The relationships between school belonging and students' motivational, social-emotional, behavioural, and academic outcomes in secondary education: A meta-analytic review. *Research Papers in Education*, 35(6), 641-680. <https://doi.org/10.1080/02671522.2019.1615116>
- [11] Rigby, C. S., & Ryan, R. M. (2018). Self-determination theory in human resource development: New directions and practical considerations. *Advances in Developing Human Resources*, 20(2), 133-147. <https://doi.org/10.1177/1523422318756954>
- [12] Scales, P. C., Pekel, K., Sethi, J., Chamberlain, R., & Van Boekel, M. (2020). Academic year changes in student-teacher developmental relationships and their linkage to middle and high school students' motivation: A mixed methods study. *The Journal of Early Adolescence*, 40(4), 499-536. <https://us.sagepub.com/en-us/journals-permissions>
- [13] Martin, F., & Bolliger, D. U. (2018). Engagement matters: Student perceptions on the importance of engagement strategies in the online learning environment. *Online Learning*, 22(1), 205-222. <https://files.eric.ed.gov/fulltext/EJ1179659.pdf>
- [14] Shepard, L. A., Penuel, W. R., & Pellegrino, J. W. (2018). Using learning and motivation theories to coherently link formative assessment, grading practices, and large-scale assessment. *Educational measurement: issues and practice*, 37(1), 21-34. <http://edmeasurement.net/MAG/Shepard-et-al-2018-E-MIP-learning-motivation-assessment.pdf>
- [15] Ergün, E., & Avcı, Ü. (2018). Knowledge sharing self-efficacy, motivation and sense of community as predictors of knowledge receiving and giving behaviors. *Journal of Educational Technology & Society*, 21(3), 60-73. https://www.researchgate.net/profile/Uemmuehan-Avcı/publication/326714204_Knowledge_Sharing_Self-Efficacy_Motivation_and_Sense_of_Community_as_Predictors_of_Knowledge_Receiving_and_Giving_Behaviors/links/63592be196e83c26eb583b30/Knowledge-Sharing-Self-Efficacy-Motivation-and-Sense-of-Community-as-Predictors-of-Knowledge-Receiving-and-Giving-Behaviors.pdf
- [16] Fletcher, T., & Ní Chróinín, D. (2022). Pedagogical principles that support the prioritisation of meaningful experiences in

- physical education: conceptual and practical considerations. *Physical Education and Sport Pedagogy*, 27(5), 455-466. <https://doi.org/10.1080/17408989.2021.1884672>
- [17] Lavy, S., & Bocker, S. (2018). A path to teacher happiness? A sense of meaning affects teacher–student relationships, which affect job satisfaction. *Journal of Happiness Studies*, 19(5), 1485-1503. DOI 10.1007/s10902-017-9883-9
- [18] Cheong, K. M., Jano, Z., Salam, S., Bareed, N. A., Ithnin, F., & Suraidi, N. (2019). Motivational factors among undergraduates learning mandarin: A qualitative perspective. *International Journal of Academic Research in Progressive Education and Development*, 8(2), 187-199. DOI: 10.6007/IJARPED/v8-i2/5694
- [19] Korthagen, F., Loughran, J., & Russell, T. (2006). Developing fundamental principles for teacher education programs and practices. *Teaching and teacher education*, 22(8), 1020-1041. <https://dspace.library.uu.nl/bitstream/handle/1874/19340/korthagen+++developing+fundamental+principles.pdf?sequence=1>
- [20] Ryan, R. M., Stiller, J. D., & Lynch, J. H. (1994). Representations of relationships to teachers, parents, and friends as predictors of academic motivation and self-esteem. *The Journal of Early Adolescence*, 14(2), 226-249. <https://journals.sagepub.com/doi/pdf/10.1177/027243169401400207>
- [21] Koedinger, K. R., Corbett, A. T., & Perfetti, C. (2012). The Knowledge-Learning-Instruction framework: Bridging the science-practice chasm to enhance robust student learning. *Cognitive science*, 36(5), 757-798. <https://onlinelibrary.wiley.com/doi/pdfdirect/10.1111/j.1551-6709.2012.01245.x>