

The Study Related to Teacher's Training and their Impact on the Academic Success of Students

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Abstract

Training is the process of acquiring the skills required in a certain field. Teachers have a great opportunity to develop their teaching skills through the training. All educational activities, such as the formation of a supportive learning environment, the formulation and implementation of a curriculum, and the evaluation of students, depend critically on teacher training. It is important to strengthen and emphasize the fundamental aspects of a profession, such as systematic theory, rigorous training over a specified amount of time, authority, community sanction, an ethical code, culture, and the generation of knowledge through research and specialization in teacher education. The aim of the study is to determine whether or not the training and development of teachers have an effect on the academic achievement of students. The total number of participants in this study is 698. For the purpose of the study, surveys and interviews are carried out to collect primary data. In the study, both the SPSS tool and the technique of regression analysis are utilized. According to the findings of the study, the amount of training and development that teachers receive has a significant impact on the level of academic achievement that students achieve. Pedagogical abilities can be improved with the use of training programs. Training and professional development opportunities for teachers are critical to improving both the academic achievement of a nation's students and the country's overall level of economic growth. The study is suggesting the teacher training is necessary to improve student academic performance. The process of teaching and learning is facilitated. Teachers and students should both be involved in this process. A trained teacher employs a number of instructional methods in the classroom. Teachers employ audio-visual aids regularly in the classroom.

Keywords: Students; Teachers; Training; Academic success; Teacher's training; Academic achievement.

1. Introduction

Teachers are seen as social builders in society. It is their major responsibility to educate the future generation in conformity with the needs of the country and the globe. Teachers ought to be knowledgeable about the things they cover in class. According to Al-Mateen (2000)¹, a teacher has to acquire training in various fields if they want to have a solid understanding and command of the areas. These are the academics who make important

¹ Al-Mateen, K.B., 2000. Managing Racism. Taking My Place in Medicine: A Guide for Minority Medical Students, 8, p.198.

contributions to a country's progress. They must pass on standards, ideas, and habits from generation to generation.

The main characteristics of a profession, such as methodical theory, demanding training over a predetermined period, power, society penalization, moral framework, culture, as well as knowledge creation through research and specialization, must be enhanced and emphasized in teacher training, (Bansal et al., 2007)². Being a great teacher necessitates ongoing formal professional training because it fosters personality development, improves communication abilities, and instills a commitment to moral principles. Teachers are required to participate in continual in-service training in order to stay updated on changes not only in their area of expertise but also in educational innovations, social and cultural problems, and other fields of study and practice.

Training is a procedure to acquire the abilities needed for a certain subject. The training helps the teachers improve their instructional techniques. A qualified teacher can use additional abilities and strategies to improve students' academic performance. Students' interest in a certain topic can also be influenced by a teacher with stronger teaching abilities. Numerous academics, among them, emphasized the need for teacher preparation. The teacher's preparation offers answers to educational issues. In the present day, teacher training is a fundamental necessity for all educational activities, including the creation of a conducive learning environment, the development and execution of a curriculum, and the assessment of students. Academic performance and interest levels of students increase when teachers employ a variety of teaching approaches and tactics based on a student's acquired skills (Wuryaningsih et. al., 2019)³.

Teaching is the act of imparting teachers' knowledge and information to younger generations with the hope that they will acquire an understanding of the scientific method. A teacher facilitates the teaching-learning process by offering direction. The term 'teaching technique' refers to the variety of approaches that can be used by a teacher while delivering a lecture to a class of students in accordance with certain learning goals. According to Omar et al. (2020)⁴, the major goals of teaching are to help students in acquiring, retaining, and utilizing knowledge, establishing habits, developing attitudes, increasing informational reserves, and comprehending fundamental subject-matter norms and concepts (Walter, 2001)⁵.

The ideological, social, and financial requirements of the relevant variable, along with the existing setup of the educational system and a well-defined assumption, are always what determine the level of instruction. In the process of meeting the expanding needs of a country, the instructional framework for teachers plays a crucial role. One of every nation's most valuable resources is its teachers, and a country's ability to raise its population depends

² Bansal, S., Buring, J.E., Rifai, N., Mora, S., Sacks, F.M. and Ridker, P.M., 2007. Fasting compared with nonfasting triglycerides and risk of cardiovascular events in women. *Jama*, 298(3), pp.309-316.

³ Wuryaningsih, W., Susilastuti, D., Darwin, M. and Pierewan, A., 2019. Effects of web-based learning and F2F learning on teachers achievement in a teacher training program in Indonesia. *International Journal of Emerging Technologies in Learning (IJET)*, 14(21), pp.123-147.

⁴ Omar, M.K., Mohammad, N.M., Shima, M.S., Raed, A. and Ali, S., 2020. Favorite Methods of Teaching and Evaluation among Students in University Colleges. *International Journal of Education and Practice*, 8(2), pp.365-378.

⁵ Walter, H. 2001. *Honni soit qui mal y pense. L'incroyable histoire d'amour entre le français et l'anglais*, Robert Laffont, Paris

on the qualities of its teachers (Thompson & Pennycook, 2008)⁶. Teachers might differ from one another in terms of the information, skills, and talents they teach, as well as the conduct and the expectations they have of their students. Naturally, at the beginning of the course, there are few instructors who believe that students are motivated and adequately trained towards the material of the course. And on the other hand, some teachers have a low level of trust in their students' ability to learn, their enthusiasm for school, and their dedication to their education. The teacher should serve as a “guide, not a dictator, an artist, not a mechanic, a scholar and a philosopher, not a collector and repeater of facts”, according to the teachers' organization that represents New York's public school teachers. There are certain teachers who place a significant amount of importance on how the students under their guidance respond to various scenarios. In this way, teacher training plays an important role in the process of creating an excellent teacher, and this is the major obligation of training employees and teacher mentors in addition to the teacher's responsibilities. Due to the fact that knowledge, competencies, student cognitive science, pedagogical ideology, academic curricula, and classroom organization are all elements of teacher training and advancement, it follows that teacher training should result in enhancements in the aforementioned realms in order to increase student learning.

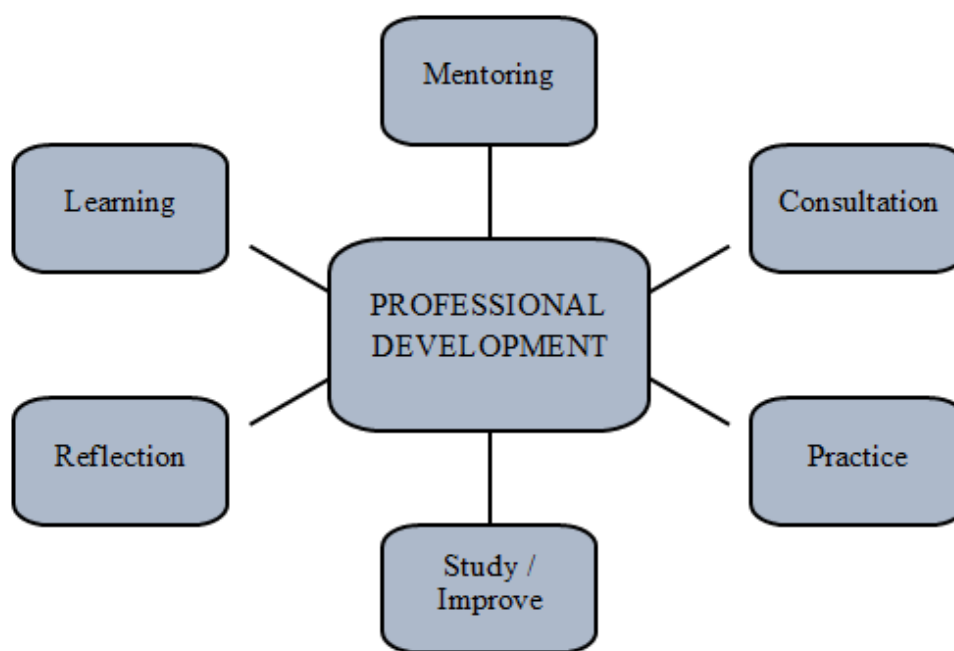


Figure 1: Training components for professional development of teachers
 Source: <https://files.eric.ed.gov/fulltext/EJ1304720.pdf>

Teacher’s Training

Training is the process by which personnel is ready to accomplish the responsibilities assigned to them. The display of strengthening a representative's knowledge and aptitude for fulfilling a certain profession is referred to as training. Training is the deliberate process through which individuals acquire information and skills for a specified purpose.

A teacher-training program provides teachers with the educational resources and further training they need to develop their expertise in a variety of fields, as well as provides

⁶ Thompson, C. and Pennycook, A., 2008. A Question of Dialogues: Authorship, Authority, Plagiarism. *Education Canada*, 48(3), pp.20-23.

them with technical help. In addition to this, it offers them a comprehensive examination of the ways in which the preparation of teachers influences the academic development of students. By emphasizing particular instructional techniques to support student learning and teaching behavioral management, importance is placed on boosting student learning.

Teacher training can help students understand the subject matter better. It increases pupils' cognitive ability. Training consists of using various techniques for learning and speaking abilities, which contributes to the enhancement of students' learning attitudes. It can improve educational quality by increasing students' learning abilities and enhancing students' attitudes toward learning. Training design for teachers can also help to change teachers' attitudes toward students' teaching practices. It gives teachers the ability to help students in a manner that encourages learning, leading to an increase in the level of information possessed by pupils. Teacher training has the capacity to change student behavior toward activity-based learning and cognition. This is attainable by creating a teacher training program that integrates activity-based learning strategies.

According to the findings of a research that was commissioned by UNESCO to investigate the influence of teacher competency on the teaching and learning process in 14 different nations in Sub-Saharan Africa, the primary purpose of teacher education is to develop a teacher's educational talents and prowess in accordance with educational regulations, allowing teachers to be effective in content delivery. Teacher education and professional development are critical components that would considerably improve students' academic achievement. The existing scope of professional development for teacher training is restricted. While some students have demonstrated that teacher training has little impact on overall academic achievement, others have demonstrated that it can boost grades when it is intensely and specifically engrossed in the subject concern. The objective of teacher preparation is to equip teachers with the knowledge they need to engage students and assist them in performing better on final examinations.

Impact of Teacher Training on Students' Performance

Teacher education is essential, especially in today's environment, to keep up with the changing needs of the profession. Trained teachers are better equipped to educate students. Training may help teachers enhance their topic knowledge, teaching methods, and so forth. The importance of professional development for teachers cannot be emphasized. It is of equal importance to the development of students since the entire educational process is based on the individual known as the teacher. The quality of the education system cannot be enhanced until the quality of teachers is improved. Teachers are such an integral element of the education system that successful policy formation and execution in the education sector would be impossible without them. Having information is one thing; being able to convey it to others is quite another.

Teachers can have a beneficial influence on students and push them to stay on track during their formative years. Students who see their teachers as role models achieve extraordinary results. They are a vital source of motivation for students throughout their academic careers, assisting them in achieving short- and long-term goals with the right supervision. Teachers help students reach their entire potential and construct a bright future by connecting them to all of the available knowledge.

Numerous studies have been conducted to compare teacher training philosophies with student academic attainment in classrooms. Teachers' personal and professional competency should be extremely high in order to assist students' attempts to attain academic achievement,

as indicated by research done in Nigeria by the department of curricular studies at the University of Port Harcourt. A teacher's professionalism encompasses both the professional skills necessary to carry out the duties of their position and the pedagogical knowledge necessary to effectively instruct students. Studies that investigate the connection between a teacher's working environment and their level of effectiveness have found that the level of preparation and understanding of the teaching process that a teacher possesses has a substantial impact on the level of success they have in the classroom. Teacher training improves students' performance by increasing their understanding of how to select and apply the most effective teaching approaches. (Giovanangeli, 2009)⁷.

Relationship between Teachers' Training and Students' Performance

Teacher education provides teachers with digital tools to help them enhance their teaching approaches. It also assists teachers in developing stronger relationships with their pupils. Students who feel closely connected to their teachers are more likely to receive more constructive guidance from their teachers as they engage in meaningful dialogues with them.

After being trained, teachers discover new ways to engage their students by fostering confidence and optimism via their feedback. They can improve the performance of students who are falling behind by implementing various tactics learned during teacher training. They have the potential to have a profound influence on students, assisting them in better engaging in the classroom and achieving higher academic outcomes.

Training and development are methods that can be seen as aiming at improving the professional expertise, talents, and perspectives of educators in the belief that they would, in turn, enhance the learning of their pupils. When it comes to the aspects of teaching that are more comparable to skills in their conception, training is an essential element of the programs that are designed to prepare instructors, and this is especially true for those aspects. However, the nurturing of reflective practices and insights is necessary for the development of many other fundamental elements of teaching.

The academic success of students is strongly correlated with the level of education and techniques of instruction that their teachers possess. A qualified educator is able to employ a variety of instructional strategies and procedures in an effective manner. Nzarirwehi and Atuhumuze (2019)⁸ conducted a study to compare the school achievement of pupils taught by trained vs untrained instructors. The findings of the study indicated that the students who learned from trained teachers obtained high academic achievements, whereas the other students who learned from untrained teachers obtained low academic achievements. These findings were supported by the fact that trained teachers led to higher academic achievements.

In general, the quality of a teacher is determined by the training he or she has received to enable him or her to succeed in his or her profession as a teacher. The quality of the teachers and the instructional technique showed a substantial positive link with student progress. The experience and educational credentials of teachers have a significant influence on pupils' academic success. The relevance of having teachers who are properly prepared and

⁷ Giovanangeli, A., 2009. Competing desires and realities: Language policies in the french-language classroom. *Portal: Journal of Multidisciplinary International Studies*, 6(1), 1-14.

⁸ Nzarirwehi, J. and Atuhumuze, F., 2019. In-service teacher training and professional development of primary school teachers in Uganda. *IAFOR Journal of Education*, 7(1), pp.19-36.

trained is an essential component of the instructional strategy that accelerated the academic development of the students in school. In addition, the instructional strategies that instructors used and the amount of experience that teachers have both have a substantial impact on the academic performance of the students as well as the attainment of behavioral goals. A teacher's quality can never improve unless he or she receives some training to keep his or her skills, abilities, and information up to date. A teacher who is well-trained and knowledgeable about his or her topic may be able to recognize his or her learner's weaknesses and strengths, making learning and teaching easier (Thompson, 2009)⁹.

2. Literature Review

Angrist and Lavy (2001)¹⁰ found that developing countries had much more teacher training than developed nations. Pence et al. (2012)¹¹ studied how teacher preparation affected the performance of Kenyan students. After finishing pre-service training, he claimed that a newly inducted teacher goes through many sorts of training. This training not only makes instructors more valuable but also raises the level of success among their students. Training that is efficient places its primary emphasis on the knowledge, capabilities, and talents required of the best educator, which in turn enables all students to perform to their full potential. According to Pence, the education of teachers is subject to a wide variety of factors. For instance, improving how teachers present content in the classroom through professional development can lead to improved levels of student achievement. Pence believes that greater student performance is the direct outcome of increased teacher training as well as more efficient utilization of educational and learning resources. In addition, the training that teachers get affects their knowledge, abilities, capacity to manage their time effectively, personality, and the evaluation methods they use.

Ngala and Page (1997)¹² found a strong correlation between student preparation and academic achievement in certain examinations. According to Atsenga (2002)¹³, effective education has a significant impact on students' knowledge. Teachers' education influences the educator's performance in terms of students' academic achievement since it maintains knowledge of preference and brings into action excellent teaching approaches. According to Morgan (2010)¹⁴, training adds knowledge to create and maintain the needed skills. Wested organization (2000)¹⁵ discovered that instruction influences student outcomes in a positive way. Wenglinsky (2000)¹⁶ evaluated a particular group of learners and found that higher

⁹ Thompson, C. H., 2009. Plagiarism, intertextuality and emergent authorship in university students' academic writing. *Portal: Journal of Multidisciplinary International Studies*, 6(1), 1-16.

¹⁰ Angrist, J.D. and Lavy, V., 2001. Does teacher training affect pupil learning? Evidence from matched comparisons in Jerusalem public schools. *Journal of labor economics*, 19(2), pp.343-369.

¹¹ Pence, S.T., Peter, C.C. and Tetreault, A.S., 2012. Increasing accurate preference assessment implementation through pyramidal training. *Journal of Applied Behavior Analysis*, 45(2), pp.345-359.

¹² Ngala, V.T. and Page, C.L., 1997. Effects of carbonation on pore structure and diffusional properties of hydrated cement pastes. *Cement and concrete research*, 27(7), pp.995-1007.

¹³ Atsenga, M., 2002. Factors affecting the teaching of oral communication in English language in secondary schools of Kakamega and Vihiga districts of Kenya. Unpublished M. Ed Thesis, Egerton University, Njoro.

¹⁴ Morgan, S., 2010. *My place*. Fremantle Press.

¹⁵ WestEd (Organization), 2000. *Teachers who learn, kids who achieve: A look at schools with model professional development*. WestEd.

¹⁶ Wenglinsky, H., 2000. *How teaching matters: Bringing the classroom back into discussions of teacher quality*.

students did well on tests in science and mathematics for which instructors had received instruction. Nyangarora (1996)¹⁷ asserted that improvements in students' academic performance are the result of teacher training. A trained educator is far more capable than an untrained educator, according to Sanders and Rivers (1996)¹⁸, who stated that generating educated teachers in their fields has an impact on how well prospective students perform academically. Ferguson (1991)¹⁹ claimed that teacher education can lead to better student academic achievement. According to Hanushek et al. (1998)²⁰, when teachers attend training sessions, the quality of their instruction is enhanced. Continuous and challenging training initiatives are more likely to have an impact on improving instructor knowledge and other characteristics, claim (Porter, 2001)²¹. According to Ikram et al. (2020)²², the major purpose of educator teaching is to ensure the continued success of the students being taught. According to the findings, around 96.6 percent of educated teachers produced outstanding achievements. According to the findings of the study, trained teachers' teaching methods were superior to untrained teachers' methods, and trained teachers' students' academic learning was superior to that of untrained teachers.

The goal of teaching is to instill information, attitudes, and skills in pupils. Teaching is a critical activity in education. A teacher employs several tactics and strategies (Joyce & Weil, 1972)²³. According to Rivers (2011)²⁴, There are several techniques used to assist instructors in raising the quality of their instruction, such as short courses, lengthy courses to enhance knowledge, skills, and capabilities, peer assessment, mentoring and coaching, and other training programs. Altinok and Kingdon (2012)²⁵ conducted an analysis of several teacher education curricula in Israel with the goal of raising the average student test score. According to Machin and McNally (2011)²⁶, the Literacy Hour Initiative has a beneficial effect on student success. Institutions from across the country are making efforts to enhance the professional capabilities of their staff members in order to acquire a market edge (Lin & Hsu, 2017)²⁷. Chen et al. (2011)²⁸ distinguished theoretical from cognitive training

¹⁷ Nyangarora, L., 1996. Factors affecting the teaching of economics in Nyamira district of Kenya. Unpublished PGDE report, Egerton University, Njoro.

¹⁸ Sanders, W.L. and Rivers, J.C., 1996. Cumulative and residual effects of teachers on future student academic achievement.

¹⁹ Ferguson, R.F., 1991. Paying for public education: New evidence on how and why money matters. *Harv. J. on Legis.*, 28, p.465.

²⁰ Hanushek, E.A., Kain, J. and Rivkin, S.G., 1998. Does special education raise academic achievement for students with disabilities?

²¹ Porter, M.E., 2001. Michael; ilustraciones Gibbs. *Strategy and the Internet*, 63, p.78.

²² Ikram, M., Hameed, A. and Imran, M., 2020. Effect of Teachers Training on students' academic performance. *Pakistan Journal of Humanities and Social Sciences*, 8(1), pp.10-14.

²³ Joyce, B. and Weil, M., 1972. *Conceptual Complexity, Teaching Style and Models of Teaching*.

²⁴ Rivers, I., 2011. *Homophobic bullying: Research and theoretical perspectives*. Oxford University Press.

²⁵ Altinok, N. and Kingdon, G., 2012. New evidence on class size effects: A pupil fixed effects approach. *Oxford Bulletin of Economics and Statistics*, 74(2), pp.203-234.

²⁶ Machin, S. and McNally, S., 2011. *The Evaluation of English Education Policies*. CEE DP 131. Centre for the Economics of Education (NJ1).

²⁷ Lin, S.R. and Hsu, C.C., 2017. A study of impact on-job training on job performance of employees in catering industry. *International Journal of Organizational Innovation (Online)*, 9(3), p.125A.

approaches. Theoretical training uses verbal and nonverbal communication to impart subjective information to receivers, Although cognitive training strategies are utilized to foster the expansion of instructors' abilities (Khan & Baloch, 2017)²⁹. The employment of cognitive approaches by teachers, such as simulation exercises, business games, role-playing, case studies, and behavior modeling, leads to greater academic achievement. Huang and Jao (2016)³⁰ distinguished between on-the-job training and off-the-job training. Apprenticeship instructors acquire the subject and other skills on the job, whereas classroom teachers study them off the job. According to Lakra (2016)³¹, the purpose of these training programs is not only to cultivate teacher characteristics, but also to instill a sense of work engagement. Specifically, the goal is to generate organizationally committed teachers. The academic achievement of pupils is significantly impacted as a direct effect of the training that teachers get.

Both within and beyond the classroom, teacher preparation and qualifications are of the utmost importance. The rules regulating education are constantly at the forefront of the discourse when it comes to concerns. The teacher's understanding of the subject matter, which should be backed by professional training, has a substantial influence on both the teaching and learning that occurs in the classroom (Anastasi, 1957)³². The transfer of knowledge, skills, and experiences from one generation to the next is accomplished through the process of education. Its purpose is to mold the behavior of citizens who are committed to the expansion of their country's economy. As the country faces modern-day challenges, it is vital for opening up new paths for economic development. Only an educated and highly qualified teaching staff equipped with contemporary skills can be able to capitalize on globalization's opportunities. According to Anjum et al. (2007)³³, teachers play a significant part in raising the nation's educational standards. They have a significant impact on the passing down of knowledge, skills, worldviews, attitudes, cultural practices, and historical customs from one generation to the next. It is via the educational process that it is possible to contribute to the accomplishment of national goals, and no educational system can perform better than the quality of its instructors. Change in society is possible with the help of educators who have advanced degrees and professional training. This, however, calls for a determined effort to produce potential educators who are in total command of their subject matter. This problem may be overcome if instructors were given teaching that was comprehensive and systematic.

²⁸ Chen, X., Tukachinsky, H., Huang, C.H., Jao, C., Chu, Y.R., Tang, H.Y., Mueller, B., Schulman, S., Rapoport, T.A. and Salic, A., 2011. Processing and turnover of the Hedgehog protein in the endoplasmic reticulum. *Journal of Cell Biology*, 192(5), pp.825-838.

²⁹ Khan, K. and Baloch, N.A., 2017. Impact of Training on Employee Development and Other Behavioral Outcomes: A Case of Public Accountant Trainees in Khyber Pakhtunkhwa. *Journal of Managerial Sciences*, 11(1).

³⁰ Huang, W.R. and Jao, Y.J., 2016. Comparison of the influences of structured on-the-job training and classroom training approaches on trainees' motivation to learn. *Human Resource Development International*, 19(2), pp.116-134.

³¹ Lakra, N.R., 2016. Assessment of employee training: the case of steel industry in India. *IUP Journal of management Research*, 15(4), p.59.

³² Anastasi, C., 1957. Attitude of in-service and pre-service primary school teachers. *Journal of Education Psychology*, 36(3), pp.1-5.

³³ Anjum, M.A., Sajjad, M.R., Akhtar, N., Qureshi, M.A., Iqbal, A. and Rehman, A., 2007. Response of cotton to plant growth promoting rhizobacteria (PGPR) inoculation under different levels of nitrogen. *Journal of Agricultural Research (Pakistan)*.

According to Wu and Shah (2004)³⁴, curricular changes lead to innovations in both the curriculum and the teaching techniques, especially in the areas of educational technology, computer-based instruction, the continual demand for better instructors, the study of new subjects, and the development of skills. The academic growth of students and the teacher's own professional development are inextricably linked to one another. A highly qualified teacher could do better than other educators. A competent educator is able to successfully implement innovative instructional strategies within the classroom setting. When he has less time, he is better able to train others effectively. According to Niazi et al. (2005)³⁵, in-service training is necessary for teachers to prepare them for changes in assignment and workplace settings brought on by the incorporation of information technology into the area of education and training. In addition, it is claimed that conferences, workshops, seminars, orientations, on-the-job training, and refresher courses may all be provided. Teachers might enroll in in-service training as a professional activity to boost their effectiveness. The essential duty of both schools and teachers is to morally educate students. The importance of character development in Islam cannot be disputed. The rapid social change has a variety of effects on the personalities of the students. The students' personalities' cognitive and emotional facets are significantly impacted. Numerous research on students' lives in society have been conducted, and it is clear that social media influences people's lifestyles, moral beliefs, and behavior. Omar (2014)³⁶ asserts that in-service training boosts teachers' effectiveness. It is a method for improving teachers' abilities and knowledge to improve instruction, foster student learning, and improve work output. As they cope with brand-new difficulties and changes in the classroom, teachers require in-service training. It's also crucial to increase teachers' professionalism.

Aims and objectives

The aim and objectives of the study are:

- a) To find out the impact of Teachers' training on students learning and problem-understanding.
- b) To study the impact of Teachers' training on students' academic performance.

3. Research Methodology

The level of academic achievement attained by students and the level of progress made by a nation's overall population are directly correlated to the level of training and development received by its teaching staff. For the purpose of the inquiry, a sample size of 698 participants was selected through the use of the Convenience Sampling Method. This inquiry made use of primary data collected by the researcher, and the study gathered primary data directly from primary sources in the study using several methods including interviews, questionnaires, and experiments. The purpose of the study is taken into consideration while designing the survey, interviews, and other primary data collection tools, as well as the interview schedule and question structure. The study makes use of the SPSS tool and the Regression Analysis technique.

³⁴ Wu, H.K. and Shah, P., 2004. Exploring visuospatial thinking in chemistry learning. *Science education*, 88(3), pp.465-492.

³⁵ Niazi, M., Wilson, D. and Zowghi, D., 2005. A maturity model for the implementation of software process improvement: an empirical study. *Journal of systems and software*, 74(2), pp.155-172.

³⁶ Omar, C.M.Z.C., 2014. The Need for In-Service Training for Teachers and Its Effectiveness In School. *International Journal for Innovation Education and Research*, 2(11), pp.1-9.

4. Results

Table 1: *Model Summary*

Model Summary				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.489 ^a	.239	.237	1.07184

a. Predictors: (Constant), Professional Development sessions helped you to improve your class attendance, Professional Development sessions helped your behavior with students

Table 1 defines the R-value as 0.489, which suggests an average connection between the two variables. The Table shows how much the independent variable, the influence of professional development sessions helped teachers to improve class attendance and their behaviors with students can explain in terms of the dependent variable's total variance.

Table 2: *ANOVA Test*

ANOVA ^a						
Model	Sum of Squares	df	Mean Square	F	Sig.	
1	Regression	250.483	2	125.241	109.016	.000 ^b
	Residual	798.440	695	1.149		
	Total	1048.922	697			

a. Dependent Variable: assessment of student's overall achievement, after your professional training

b. Predictors: (Constant), Professional Development sessions helped you to improve your class attendance, Professional Development sessions helped your behavior with students

Table 2 shows the ANOVA test, and the regression equation's ability to fit the data is measured (i.e., predicts the dependent variable). According to the data in the table, the regression model accurately predicts the dependent variable. This shows that the regression model's statistical significance is 0.000, which is less than 0.05, and that the result variable is statistically substantially predicted by the regression model (i.e., it is a good fit for the data).

Table 3: Coefficients

Model	Coefficients ^a				t	Sig.
	Unstandardized Coefficients		Standardized Coefficients	Beta		
	B	Std. Error				
(Constant)	3.096	.218		14.228	.000	
1 Professional Development sessions helped your behavior with students	.432	.030	.486	14.533	.000	
Professional Development sessions helped you to improve your class attendance	.012	.029	.014	.418	.676	

a. Dependent Variable: assessment of student's overall achievement, after your professional training

Table 3 of Coefficients in the model demonstrates how effectively the professional development training created an impact on teachers' behavior toward students and how it helps to reduce the absenteeism of students in class. The table showcase that the regression model shows a significant value (significance value is less than 0.05).

Table 4: Model Summary

Model	R	R Square	Model Summary	
			Adjusted R Square	Std. Error of the Estimate
1	.571 ^a	.326	.325	2.02536

a. Predictors: (Constant), teachers' training

Table 4 defines the R-value i.e., 0.571, which indicates the higher degree of correlation between both variables. The R2 value indicates how much of the total variation in the dependent variable, 'Students performance', can be explained by the independent variable.

Table 5: ANOVA Test

Model	ANOVA ^a				
	Sum of Squares	df	Mean Square	F	Sig.
1 Regression	1380.811	1	1380.811	336.611	.000 ^b
Residual	2855.059	696	4.102		
Total	4235.870	697			

a. Dependent Variable: Students' performance
b. Predictors: (Constant), teachers' training

Table 5 shows the ANOVA test, and the regression equation's ability to fit the data is measured (i.e., predicts the dependent variable). According to the data in the table, the regression model accurately predicts the dependent variable. This shows that the regression

model's statistical significance is 0.000, which is less than 0.05, and that the result variable is statistically substantially predicted by the regression model (i.e., it is a good fit for the data).

Table 6: Coefficients

Model		Coefficients ^a			t	Sig.
		Unstandardized Coefficients		Standardized Coefficients		
		B	Std. Error	Beta		
1	(Constant)	-2.433	.754		-3.227	.001
	teachers training	.078	.004	.571	18.347	.000

a. Dependent Variable: Students' performance

Table 6 shows the Coefficients in the model and demonstrates how effectively the professional development training created an impact on enhancing students' academic performance. The table shows that the regression model used is significant (the significance value is less than 0.05).

5. Conclusions and Recommendations

The results conclude that teacher training significantly influences student academic performance in the classroom. Training for teachers results in high-quality instruction and learning, both of which are necessary conditions for successful academic achievement among students. By participating in a training program, one may significantly increase their pedagogical abilities. The process of teaching and learning is facilitated in this manner, which results in increased convenience. This is a procedure in which both the teachers and the students should take an interest. During the course of the study, it was observed that well-trained educator employs a diverse assortment of instructional strategies when they are in the classroom. In the classroom, he makes liberal use of various audio and visual aids. During the process of conducting the study, it was also observed that institutions for the training of teachers confront several challenges, such as a lack of resources and a lack of available time. According to the study's findings, there is a strong association between instructors' training and students' achievement on external tests, as well as between students' talents and their participation in extracurricular activities. The study also found that training and development lead to an improvement in the productivity of teachers increases their abilities, knowledge, understanding, and attitude, and also improve the use and handling of tools and operating equipment. The following are the recommendations of the study :

- The government should effectively organize teacher training programs.
- Only those with a professional degree should be permitted to enter the teaching profession.
- The teacher training process should include learner-related psychological information. As a result, all teachers will be conversant with the psychology of the students.
- Untrained teachers should be skilled as needed.
- In educational settings, the cramming method needs to be avoided. To achieve this objective, each of the articles ought to be conceptual and unread.
- Teachers who have earned highly professional degrees need to be eligible for additional benefits. In this manner, educators will continue to increase their level of

professional certification.

- After the training, an examination should be required. Teachers should be cautioned if they perform poorly on these assessments.
- It is important that master trainers have the right to issue warnings to instructors if they determine that the candidates are not serious about the teacher training. Extra credit ought to be accorded to those with legible handwriting. The teachers will recognize its significance because of this.

It is recommended that psychologists be chosen for the roles of master trainers so that they can provide instruction to teachers.

References

- Al-Mateen, K.B., 2000. Managing Racism. Taking My Place in Medicine: A Guide for Minority Medical Students, 8, p.198.
- Bansal, S., Buring, J.E., Rifai, N., Mora, S., Sacks, F.M. and Ridker, P.M., 2007. Fasting compared with nonfasting triglycerides and risk of cardiovascular events in women. *Jama*, 298(3), pp.309-316.
- Wuryaningsih, W., Susilastuti, D., Darwin, M. and Pierewan, A., 2019. Effects of web-based learning and F2F learning on teachers achievement in a teacher training program in Indonesia. *International Journal of Emerging Technologies in Learning (iJET)*, 14(21), pp.123-147.
- Omar, M.K., Mohammad, N.M., Shima, M.S., Raed, A. and Ali, S., 2020. Favorite Methods of Teaching and Evaluation among Students in University Colleges. *International Journal of Education and Practice*, 8(2), pp.365-378.
- Walter, H. 2001. Honni soit qui mal y pense. L'incroyable histoire d'amour entre le français et l'anglais, Robert Laffont, Paris
- Thompson, C. and Pennycook, A., 2008. A Question of Dialogues: Authorship, Authority, Plagiarism. *Education Canada*, 48(3), pp.20-23.
- Giovanangeli, A., 2009. Competing desires and realities: Language policies in the french-language classroom. *Portal: Journal of Multidisciplinary International Studies*, 6(1), 1-14.
- Nzarirwehi, J. and Atuhumuze, F., 2019. In-service teacher training and professional development of primary school teachers in Uganda. *IAFOR Journal of Education*, 7(1), pp.19-36.
- Thompson, C. H., 2009. Plagiarism, intertextuality and emergent authorship in university students' academic writing. *Portal: Journal of Multidisciplinary International Studies*, 6(1), 1-16.
- Angrist, J.D. and Lavy, V., 2001. Does teacher training affect pupil learning? Evidence from matched comparisons in Jerusalem public schools. *Journal of labor economics*, 19(2), pp.343-369.
- Pence, S.T., Peter, C.C. and Tetreault, A.S., 2012. Increasing accurate preference assessment implementation through pyramidal training. *Journal of Applied Behavior Analysis*, 45(2), pp.345-359.
- Ngala, V.T. and Page, C.L., 1997. Effects of carbonation on pore structure and diffusional properties of hydrated cement pastes. *Cement and concrete research*, 27(7), pp.995-1007.
- Atsenga, M., 2002. Factors affecting the teaching of oral communication in English language in secondary schools of Kakamega and Vihiga districts of Kenya. Unpublished M. Ed Thesis, Egerton University, Njoro.

- Morgan, S., 2010. My place. Fremantle Press.
- WestEd (Organization), 2000. Teachers who learn, kids who achieve: A look at schools with model professional development. WestEd.
- Wenglinsky, H., 2000. How teaching matters: Bringing the classroom back into discussions of teacher quality.
- Nyangarora, L., 1996. Factors affecting the teaching of economics in Nyamira district of Kenya. Unpublished PGDE report, Egerton University, Njoro.
- Sanders, W.L. and Rivers, J.C., 1996. Cumulative and residual effects of teachers on future student academic achievement.
- Ferguson, R.F., 1991. Paying for public education: New evidence on how and why money matters. *Harv. J. on Legis.*, 28, p.465.
- Hanushek, E.A., Kain, J. and Rivkin, S.G., 1998. Does special education raise academic achievement for students with disabilities?
- Porter, M.E., 2001. Michael; ilustraciones Gibbs. *Strategy and the Internet*, 63, p.78.
- Ikram, M., Hameed, A. and Imran, M., 2020. Effect of Teachers Training on students' academic performance. *Pakistan Journal of Humanities and Social Sciences*, 8(1), pp.10-14.
- Joyce, B. and Weil, M., 1972. *Conceptual Complexity, Teaching Style and Models of Teaching*.
- Rivers, I., 2011. *Homophobic bullying: Research and theoretical perspectives*. Oxford University Press.
- Altinok, N. and Kingdon, G., 2012. New evidence on class size effects: A pupil fixed effects approach. *Oxford Bulletin of Economics and Statistics*, 74(2), pp.203-234.
- Machin, S. and McNally, S., 2011. *The Evaluation of English Education Policies*. CEE DP 131. Centre for the Economics of Education (NJI).
- Lin, S.R. and Hsu, C.C., 2017. A study of impact on-job training on job performance of employees in catering industry. *International Journal of Organizational Innovation (Online)*, 9(3), p.125A.
- Chen, X., Tukachinsky, H., Huang, C.H., Jao, C., Chu, Y.R., Tang, H.Y., Mueller, B., Schulman, S., Rapoport, T.A. and Salic, A., 2011. Processing and turnover of the Hedgehog protein in the endoplasmic reticulum. *Journal of Cell Biology*, 192(5), pp.825-838.
- Khan, K. and Baloch, N.A., 2017. Impact of Training on Employee Development and Other Behavioral Outcomes: A Case of Public Accountant Trainees in Khyber Pakhtunkhwa. *Journal of Managerial Sciences*, 11(1).
- Huang, W.R. and Jao, Y.J., 2016. Comparison of the influences of structured on-the-job training and classroom training approaches on trainees' motivation to learn. *Human Resource Development International*, 19(2), pp.116-134.
- Lakra, N.R., 2016. Assessment of employee training: the case of steel industry in India. *IUP Journal of management Research*, 15(4), p.59.
- Anastasi, C., 1957. Attitude of in-service and pre-service primary school teachers. *Journal of Education Psychology*, 36(3), pp.1-5.
- Anjum, M.A., Sajjad, M.R., Akhtar, N., Qureshi, M.A., Iqbal, A. and Rehman, A., 2007. Response of cotton to plant growth promoting rhizobacteria (PGPR) inoculation under different levels of nitrogen. *Journal of Agricultural Research (Pakistan)*.
- Wu, H.K. and Shah, P., 2004. Exploring visuospatial thinking in chemistry learning. *Science education*, 88(3), pp.465-492.
- Niazi, M., Wilson, D. and Zowghi, D., 2005. A maturity model for the implementation of software process improvement: an empirical study. *Journal of systems and software*,

74(2), pp.155-172.

Omar, C.M.Z.C., 2014. The Need for In-Service Training for Teachers and Its Effectiveness In School. *International Journal for Innovation Education and Research*, 2(11), pp.1-9.