Advances in Consumer Research
https://acr-journal.com/
Volume-2 | Issue-6 | December 2025
Original Researcher Article

A Study To Evaluate Incentive Systems And Teacher Professional Development In Educational Management

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ABSTRACT
Teacher professional development has been an important component of educational management in China because schools are constantly changing and encountering more challenges. The purpose of this study was to investigate how incentive mechanisms support teachers' professional development and how they affect school administration practices. To assess the data collected from 649 individuals quantitatively, the researcher utilised SPSS 25. According to the findings, factors that affected teachers' development were workload, opportunities for professional development, training accessibility, and support from educational management. The outcomes of structured professional development programs improved teachers' classroom strategies, collaboration and teaching ability. Teachers were more involved when they had access to relevant learning opportunities. The study also discovered that the actions of the management had a significant impact on the degree to which teachers incorporated newly acquired knowledge into their lectures. Professional development had a positive impact on teaching methods, classroom atmospheres, and the level of student participation. Consequently, there were variances that were seen at other schools that led to the conclusion that local factors, including the level of staff competency, the amount of organisational support and the ease of access to resources had an impact on the results of professional development. The study placed a strong focus on the need to develop ongoing adjustments to the system for the development of teachers to ensure that there would be uniformity across all of the different areas. This may be accomplished via two methods including increasing the level of support in school environments and developing workplaces. .

Keywords: *Teacher Professional Development (TPD); Educational Management; Incentive Mechanism; Professional Learning; Chinese Schools..*

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1. INTRODUCTION:

In today's rapidly changing educational management environment, teacher professional development is crucial if schools desire to continue meeting the learning demands of their students. Therefore, thoughtful reward programs that align with the idea of teacher professional development might be considered one of the most crucial levers. Educational management uses incentives to regulate the behaviour of teachers. Management creates frameworks that link incentives to clearly stated goals. Increasing student achievement, improving teacher performance, or increasing training program participation are a few instances of such goals. When educators have a solid grasp of these goals, they may make better decisions about professional development. Schools gain because motivated teachers are more committed to the growth of their students (Chornomordenko et al., 2023). Financial incentives like bonuses and allowances or non-financial ones like public recognition, career progression opportunities and classroom autonomy may serve as motivators for students to continue their professional development, produce innovative lesson plans, and collaborate with others. Strong incentive systems are correlated with engaged and productive faculty members, according to many empirical studies carried out in Chinese universities. For instance, studies carried out at Chinese universities discovered that a more complex incentive system increased staff engagement, which in turn increased output. Teachers' access to professional development opportunities is seen as essential to maintaining high-quality teaching and enhancing student results in today's educational systems. Many institutions struggle to align these programs with motivational theories that effectively promote growth (Yao, 2022). Vocational education specialists have concluded that maximising the incentive mechanism with professional training, varied evaluation, and a career-development platform is the most effective approach to raise the academic quality. This increases teachers' feelings of community and inspires them to grow personally which in

turn satisfies more institutional demands. Determining the connection between incentive programs and objectives for teachers' professional development is crucial within this larger framework. Professional development includes the capacity to adapt to changing educational requirements, the development of self-awareness, confidence in one's own teaching abilities, and participation in professional organisations.

2. BACKGROUND OF THE STUDY

Teacher professional development has grown in importance as Chinese schools work to improve learning outcomes. Many Chinese schools have been under intense pressure to raise the quality of teaching and adjust to new educational reforms. These developments forced teachers to update their methods and adjust to the changing needs of their students. Therefore, to promote lifelong learning among their staff, educational institutions need creative approaches. In recent years, a number of Chinese government initiatives have pushed for more possibilities for teachers and other school employees to get professional development. Local education departments also pressured school districts to enhance working conditions and teacher training. Several schools implemented mentoring programs, peer groups, and workshops. These programs were designed to help teachers handle the demands of today's classrooms (Jurs et al., 2023). However, as teachers' individual experiences showed, such approaches were not always effective. The immense workloads were a serious barrier. Large classes and other administrative duties were the responsibility of many Chinese teachers. There was less time for continued education because of these responsibilities. Unfair access to development opportunities was made worse by the differences between schools in rural and urban areas. Rural schools often struggled because they lacked staff and training materials. Due to these challenges, several Chinese schools looked at the idea of providing instructors who participated in professional development programs with financial rewards. These incentives varied depending on the location and the particular school type. Teachers receive recognition for their efforts or are offered the chance to take part in specialised training. Schools have sometimes rearranged teachers' duties or given them more peer support. They wanted teachers to feel more inspired and less under pressure (Zhang et al., 2024). The study examined how Chinese schools trained teachers and how professional development improved educational management.

3. PURPOSE OF THE RESEARCH

The purpose of this research was to evaluate how school administration incentive programs supported teachers' professional development and their impact on the educational management of the institutions. The goal of the study was to determine the best incentives to encourage educators to engage in professional development. It also examined how schools raised standards for classroom teaching and influenced instructors' behaviour using these incentives. Research focused on the idea that strong professional development opportunities for teachers are essential to providing an excellent education. The research attempted to understand how financial incentives influenced instructors' long-term professional progress. Results revealed that teachers were less inclined to study when formal programs ended without incentives. The research also examined how teachers used their knowledge. Researchers sought to see whether financial incentives kept teachers motivated and confident as they improved. A different objective was to study how professional learning affects the school atmosphere. The research examined how professional development affects classroom cooperation, learning outcomes, and academic performance. Its secondary goal was to see if incentives might incur school reform.

4. LITERATURE REVIEW

Teacher professional development has become a crucial component of educational management in the modern day, as schools work to meet varied student populations, evolving educational needs, and new technology demands. A lot of scholarly attention has been paid to incentive mechanisms in this context. These are systems designed to support and promote constructive professional behaviour. Incentives in education include monetary rewards, chances for career advancement, public recognition, performance-based evaluations, and encouraging workplaces. Their primary goal is to encourage more educators to perform better in the classroom, which enhances student achievement and results in efficient teaching strategies. The classification of the incentive elements into either internal or external was determined by a survey that was conducted among 2,177 university professors in China. Salary and benefits, the organisational environment, and professional growth were categorised as external elements were designated as internal elements. In addition, it reached the conclusion that the reactions of teachers to incentives differ considerably depending on their position, age, and the amount of experience they have in the field of teaching (Hao, 2023). Another research indicated that incentive programs that are successful encourage workers to have a continual improvement mindset. When incentives correspond with teachers' true motivations, such as a commitment to student achievement and a desire for instructional mastery, it may be possible to promote participation in professional development programs, encourage reflective practice, and foster collaborative learning communities. Inadequate incentives run the risk of limiting curriculum possibilities, preventing collaboration among teachers, and limiting teachers' professional autonomy. The varying results indicate that when creating incentives for educational systems, a balance must be struck between the demands for accountability and the requirements of educators in terms of their professional growth (Sun et al., 2021). Moreover, another prior study focused on the professional learning of the Chinese teachers as it promotes cooperation and knowledge exchange among professions. Teachers improve the school as a whole by fostering student cooperation, which not only enhances their own skills but also helps their colleagues' progress. Finally, professional

learning that employs incentive frameworks may be able to strike a balance between the two types of motivation. In addition to the external motivation that incentives provide, effective programs may help instructors create their own internal desire to learn, enjoy their professional life, and make a positive impact in the classroom. The primary aims of this professional development program are to improve the quality of instruction, retain qualified teachers and promote collaboration in the classroom between teachers and students (Chen, 2022).

5. RESEARCH QUESTION

- What is the impact of Professional Learning in Educational Management?

6. RESEARCH METHODOLOGY

6.1 Research Design

A quantitative research analysis method was used in the course of study. The researcher used SPSS 25 to analyse the quantitative data. In order to determine the reliability and broadness of the statistical association, the odds ratio and 95% confidence interval were used. It is said that the results are significant when the p-value is less than 0.05. Due to descriptive analysis, a clearer grasp of the data's fundamental composition was obtained.

6.2 Sampling

The researcher utilised a random sampling technique. Using the Rao-soft tool, the researcher calculated the study's overall sample size. Therefore, to collect sample data for the research, 720 questionnaires were distributed. In order to participate in the research, 682 people in total submitted responses to survey questions. However, 33 sets of incomplete questions were eliminated from the collected sets. Therefore, 649 was the final sample size.

6.3 Data and Measurement

The researcher gathered the data for the study using quantitative analysis. To quantify their answers, survey respondents were asked to utilise a five-point Likert scale. The researcher used the internet extensively to get secondary data.

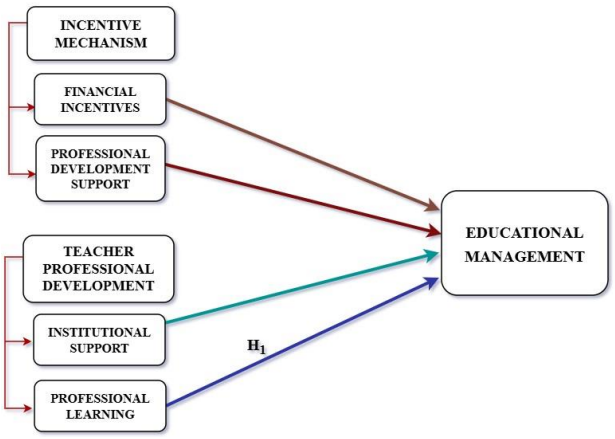
6.4 Statistical Software

The researcher employed SPSS 25 and Microsoft Excel for the statistical analysis.

6.5 Statistical Tools

An analysis of descriptive statistics provided information on various demographic and level-specific characteristics of various programs. The inductive statistical studies use a number of approaches to determine the reliability and validity of theoretical frameworks, compute odds ratios with 95% confidence intervals, and employ other statistical tools.

7. CONCEPTUAL FRAMEWORK



8. RESULT • Factor Analysis

Using publicly available data, factor analysis (FA) may be utilised to uncover hidden components. When there are no obvious physical or psychological symptoms, evaluations may rely on regression results. Simulations may be utilised to find gaps, obvious connections, and possible weak spots. Kaiser-Meyer-Olkin (KMO) tests are used to analyse the outcomes of several regression investigations. The dependent variable is precisely approximated by the statistical model and its dependent variables. Different instances of duplicate data might exist. Less unequal data is simpler to understand. KMO is a reliable source of any integer between 0 and 1 for researchers. A sample is deemed adequately large when the KMO score is between 0.8 and 1. According to Kaiser, it has to fulfil several requirements in order to get accreditation: It is well below the usual range of 0.050 to 0.059, which is 0.60 to 0.69. An average middle school score would be in the range of 0.70 to 0.79. Its remarkable range is from 0.90 to 1.00.

Table1: KMO and Bartlett's Test

Testing for KMO and Bartlett's

Sampling Adequacy Measured by Kaiser-Meyer-Olkin .988

The results of Bartlett's test of Sphericity are as

follows: Approx. chi-square = 7315.249 df = 190 sig =.000

Table 1: KMO and Bartlett's Test

KMO and Bartlett's Test[a]		
Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.988
Bartlett's Test of Sphericity	Approx. Chi-Square	7315.249
	df	190
	Sig.	.000
a. Based on Correlations		

Considering this, it is reasonable to sample comments. The researcher used Bartlett's Test of Sphericity to figure out if the correlation matrices were statistically significant. In the Kaiser-Meyer-Olkin statistic, it was found that the sample size was 0.988, which is considered to be within reasonable limits. When Bartlett's Sphericity test was conducted, the p-value came out to be 0.00. Positive

findings from Bartlett's Sphericity test indicate that the correlation matrix is not an identity matrix.

✞ INDEPENDENT VARIABLE • Teacher Professional Development

The goal of teacher professional development is to help teachers enhance their abilities and the way they interact with their students via exposure to new ideas, practices and viewpoints. To guarantee that teachers enhance their practices and have a positive impact on student learning, this process is a planned, continuous, and methodical effort. Effective development strategies for teachers are generally team-based and adapt to the requirements of teachers as well as encourage an approach of continuous improvement in the classroom. It makes sure that teachers have the skills to handle the difficulties of a rapidly evolving technology landscape and a diverse student body that is changing the goals of the curriculum (Tan et al., 2025). Teachers who get continual professional development feel respected, appreciated, and better equipped to adjust to the rapidly changing needs of the classroom. Its primary goal is to enhance instruction. Innovative teaching methods are more likely to be used by educators who make an investment in themselves by attending conferences and other professional development opportunities. Teachers may learn more about teaching, classroom management, and particular subjects via these development strategies designed for them (Sancar et al., 2021).

✞ FACTOR • Professional Learning

Throughout their careers, educators such as teachers participate in professional learning to enhance their skills, knowledge, and proficiency. Apart from structured training courses, seminars, workshops, and group learning sessions, one may also pursue education via less formal methods including peer mentoring and introspection. In addition to assisting individual instructors in improving themselves, the purpose of career growth is to promote a culture of lifelong learning, flexibility and responsiveness to changing student needs, educational standards, and technological advancements. It encourages lifelong learning and emphasises the need to provide teachers with professional development opportunities (Yan, 2024). Professional learning is especially crucial for improving education since it helps teachers perform better which benefits students' academic performance and improves the school environment overall. It might be argued that professional development is important in various ways, such as helping teachers grow personally and enhancing educational institutions overall. A significant benefit of professional learning is that it may provide teachers with more power by assisting them in developing new teaching strategies, methods, and abilities (Prenger et al., 2021).

✞ DEPENDENT VARIABLE • Educational Management

Managing schools and other places of learning effectively is the art and science of educational management. Several authors define it as the process of organising, directing, and controlling educational resources to achieve preestablished goals. The educational process must be followed and resources must be taken care of. Motivating a group of students and teachers to perform effectively in class is another aspect of it. Alternatively, it might be argued that school leaders are essential in establishing the strategic direction of the institution. Effective school administrators must have a deep awareness of the political and social environment in which they work since schools are part of a larger societal system. Data-driven strategies and technology innovations have been incorporated into this idea for better school management in recent years (Díez et al., 2020). When schools are dealing with difficulties like higher enrolment, fewer resources, and changing societal requirements, educational management is very important. Effective educational management is crucial if the school is to succeed in its mission to educate its students. In order to achieve this, they must closely observe the process of curriculum development, instructional methods, and the learning environment as a whole (Gohil & Pithadia, 2023). Teachers are able to improve their skills due to great educational management. In every educational institution, the instructors are the most important part. There is a strong correlation between students' developmental progress and the quality of their educational experiences.

• Relationship between Professional Learning and Educational Management

The significance of professional learning in the educational management of institutions is hugely debated based on the enhancement of teachers' skills. Continuous training is necessary for teacher growth. When schools and teachers work together, both the teachers and management perform better. New teaching techniques may be created with the help of professional learning. They also learn about the needs of the students and the curriculum. Classroom procedures are improved via professional learning of the teachers. They gain confidence when they learn how to plan and evaluate lessons. Additionally, they learn about supportive learning settings and behaviour management. These adjustments cannot be made by teachers alone. They are supplied and guided by management systems of education for educators. School leaders choose the resources and training programs. They provide mentoring programs, peer groups, and lectures. Their goals align with the school's mission. Instructors are encouraged to engage in educational activities via time management and monitoring. Teachers feel valued when leaders are acknowledged. This engages and inspires students (Zheng, 2022). The use of new skills in the classroom is made easier by educational management. After training, teachers who use new tactics require assistance. Classes are observed and coached by management. This enhances teaching methods. It aids them in resolving implementation problems. They feel more at ease attempting new techniques when they have support. School culture is impacted by professional learning. Through group planning and actions, management cultivates this culture and strong learning cultures are

associated with more stable and progressive schools (Zhang et al., 2021).

After examining the above discussion, the researcher arrived at the following hypothesis to examine the influence of Professional Learning and Educational Management:

- ***"H_{01}: There is no significant relationship between Professional Learning and Educational Management."***
- ***"H_1: There is a significant relationship between Professional Learning and Educational Management."***

Table 2: H_1 ANOVA Test

ANOVA					
Sum					
	Sum of Squares	**df**	**Mean Square**	**F**	**Sig.**
Between Groups	69915.528	253	276.346	113.723	.000
Within Groups	959.962	395	2.430		
Total	70875.49	648			

The investigation produced important outcomes. If the pvalue is less than 0.05, then an F-value of 113.723 qualified as statistically significant. This determined that the ***"H_1: There is a significant relationship between Professional Learning and Educational Management"*** is accepted, and the null hypothesis is rejected.

9. DISCUSSION

The study's findings showed that professional learning was crucial to teachers' growth as educators, but that the results were highly influenced by the environment in which they occurred. Teachers who were able to connect workshops, mentoring, and peer collaboration to current problems they encountered in the classroom were able to gain even more from these activities. The time and effort that were put into the education of teachers resulted in a positive outcome for students, as shown by the beneficial effects that were seen in classrooms after the completion of professional development programs. For instance, the significant consequences that arise from teachers' professional development include a greater degree of student engagement and a learning environment that is more suitable for student success. Given that, it is possible that these advantages may not have been consistent and that they may have been subject to special conditions if the differences across the institutions are taken into consideration.

10. CONCLUSION

The research discovered that teachers' professional development improved when schools provided structured learning opportunities. As a consequence of the organised training programs, teachers acquire new teaching techniques. Additionally, the study found that teachers who reported receiving clear instructions from administration were more likely to engage in professional development. Moreover, incentive schemes have been shown to increase participation in development initiatives. For many teachers, possibilities for professional growth and public recognition were more inspiring than financial pay. Teachers were more motivated when they were acknowledged for their efforts. According to the research, teachers preferred incentives that promoted long-term growth above those that offered immediate benefits. Apart from that, professional learning of teachers improves their teaching methods. They tend to communicate better with students and regulate classroom conduct more successfully. The findings showed that students prefer skilled and confident teachers. This improves classrooms and academic engagement. Hence, minor changes in workload can boost the participation of teachers in gaining classroom settings.

more professional learning. Future research should emphasise classroom needs and teacher well-being and develop strategies for improvement of teaching inside

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