THE ROLE OF EDUCATIONAL ADMINISTRATION IN ENHANCING TEACHER EDUCATION: ADVANCING CAPACITY BUILDING AND INSTRUCTIONAL QUALITY FOR 21ST-CENTURY CLASSROOMS

EZEPUE, EVELYN IJEOMA
Department of Educational Foundations
Faculty of Education, University of Nigeria, Nsukka

Abstract - The study examined the role of educational administration in enhancing teacher education in public secondary schools in Agbani Education Zone, Enugu State. A descriptive survey research design was adopted for the study. Fuour research questions guided the study. The population of the study comprised all 45 principals of these schools, who also served as the respondents. Since the entire population was studied, there was no need for sampling. A structured questionnaire titled Teacher Education and Administration Questionnaire (TEAQ) was used as the instrument for data collection. The instrument was validated by three experts: two from the Educational Administration and Planning Unit, Department of Educational Foundations, and one from the Measurement and Evaluation Unit, Department of Science Education, all in the Faculty of Education, University of Nigeria, Nsukka. To establish reliability, the instrument was subjected to a reliability test using Cronbach's alpha, which produced a high reliability coefficient of 0.84. Data collection was carried out through direct administration of the questionnaire to the respondents. The decision rule for data interpretation was based on a mean score of 2.50 as the benchmark for acceptance. The findings of the study revealed that educational administration significantly enhances teacher education by fostering continuous professional development. The study also established that capacity-building initiatives positively influence instructional quality in public secondary schools. Based on the findings, it was recommended that school administrators should prioritize ongoing training programs to enhance teachers' pedagogical skills. This study contributes to knowledge by providing empirical evidence on the impact of effective educational administration on teacher education. The findings will be useful in improving learning outcomes in public secondary schools.

Keywords: Educational administration, teacher education, professional development, instructional quality

Introduction

The role of educational administration in enhancing teacher education is fundamental to the advancement of instructional quality and capacity building in contemporary classrooms. Educational administration refers to the planning, organizing, directing, and coordinating of educational activities to ensure effective teaching and learning (Hoy and Miskel, 2013). The quality of teacher education is a crucial determinant of student achievement, as teachers play a central role in shaping learners' intellectual and social development (Darling-Hammond, 2020). In the 21st century, where educational demands are constantly evolving, it has become imperative for administrators to implement strategies that foster teacher capacity building and improve instructional quality. Educational leaders are responsible for formulating policies that support teacher training, professional development, and curriculum innovation to meet the challenges of modern learning environments (Fullan, 2016). Capacity building in teacher education is essential for ensuring that educators acquire the necessary competencies to effectively manage diverse classrooms. Professional development programs, mentorship initiatives, and

leadership training are critical in equipping teachers with contemporary pedagogical skills (Guskey, 2018).

The integration of technology in education, student-centered learning approaches, and competency-based assessments require teachers to continuously update their knowledge and teaching strategies (Mishra and Koehler, 2006). Educational administration plays a significant role in facilitating access to training opportunities, providing instructional resources, and promoting collaborative learning environments among educators (Leithwood and Sun, 2018). When teachers receive adequate support and continuous training, they are more likely to adopt innovative teaching methods that enhance student engagement and academic performance. Instructional quality is a major focus in teacher education, as it directly influences learning outcomes. High-quality instruction involves the use of evidence-based teaching practices, differentiated learning strategies, and active student participation in the learning process (Hattie, 2009). Hence, through strengthening teacher education through effective educational administration, institutions can create a conducive learning environment where students develop critical thinking, creativity, and problem-solving skills necessary for success in a rapidly changing world.

A thorough understanding of the fundamental concepts related to educational administration and teacher education is essential for exploring how they influence capacity building and instructional quality in contemporary classrooms. Key terms such as educational administration, capacity building, instructional quality, and 21st-century classrooms must be defined to provide clarity in understanding their interconnectedness. Educational administration involves planning, organizing, coordinating, and controlling educational resources to achieve institutional goals. It encompasses decision-making, leadership, and policy implementation aimed at enhancing teaching and learning outcomes (Bush, 2018; Owens & Valesky, 2015). The application of management principles in the operation of educational institutions is critical for ensuring efficiency in instructional delivery and organizational effectiveness. Administrators also play a significant role in teacher development, professional training, and instructional leadership, creating an environment conducive to teacher growth and student success, which directly links to capacity building. Capacity building is an ongoing process that focuses on enhancing the skills and abilities of individuals and institutions to perform effectively in their educational roles. In education, it refers to professional learning initiatives that equip teachers with the necessary skills for effective classroom instruction (Darling-Hammond, 2020). Capacity building involves improving teachers' knowledge, instructional strategies, and adaptability to meet the changing demands of education (Guskey, 2018). By fostering a learning culture through collaboration and professional development programs, teachers can refine their practices continuously. Effective capacity building is fundamental for maintaining high-quality education, particularly in classrooms requiring innovative, student-centered learning. Without robust professional development, instructional quality may deteriorate, affecting student performance and the overall educational experience (Fullan, 2016).

Instructional quality is a crucial component in ensuring student engagement and achievement. It refers to the effectiveness of teaching strategies, learning resources, and assessment methods. Teachers who implement evidence-based pedagogical approaches significantly enhance learning outcomes (Hattie, 2009). The depth of subject-matter knowledge and teaching expertise further elevates instructional quality (Shulman, 1987). Instructional quality involves structured lesson planning, differentiated instruction, and formative assessment techniques designed to maximize student learning potential

(Marzano, 2017). High instructional quality ensures students are provided with engaging and meaningful learning experiences that foster critical thinking and problem-solving skills, particularly in 21st-century classrooms, where teaching methods must adapt to modern educational needs. The concept of 21st-century classrooms emphasizes integrating technology, collaborative learning, and innovative teaching approaches to prepare students for global challenges. These classrooms incorporate digital tools, student-centered instruction, and interdisciplinary approaches to education, fostering creativity, problem-solving, communication, and digital literacy (Trilling & Fadel, 2009). The priority in such classrooms is on deep learning experiences where students engage in projects, research, and interactive discussions (Fullan & Langworthy, 2014). Effective leadership and educational administration are key to implementing modern teaching methodologies in these classrooms, ensuring that both teachers and students are equipped to thrive in a rapidly changing world. This relationship between educational administration and teacher education is vital, as administrators provide the necessary policies, resources, and training for educators to enhance teaching effectiveness and respond to the needs of contemporary classrooms. Educational administration plays a significant role in shaping teacher education by designing teacher preparation programs, organizing professional development initiatives, and ensuring access to modern instructional materials (Leithwood & Sun, 2018). Effective leadership within educational institutions fosters an environment that supports continuous learning and professional growth for teachers, promoting a culture of collaboration and accountability. Furthermore, administrators are responsible for integrating technology and innovative teaching methods into teacher education. As digital learning continues to evolve, administrators must ensure that teachers are trained in using technology-enhanced instruction, online learning platforms, and data-driven teaching approaches (Mishra & Koehler, 2006). The alignment of teacher education with 21st-century classroom demands requires strong administrative leadership, strategic planning, and ongoing support for educators to ensure successful outcomes in teaching and learning.

Transformational Leadership Theory was propounded by Bass (1984) and emphasizes leadership that inspires, motivates, and supports individuals to achieve collective goals. The tenet of this theory is that leaders can elevate the motivation and performance of their followers by fostering a vision that promotes commitment, intellectual stimulation, and individualized support. This theory is based on the idea that effective leadership is not just about maintaining the status quo but about transforming and developing the capabilities of individuals within an organization. The characteristics of Transformational Leadership Theory include idealized influence, inspirational motivation, intellectual stimulation, and individualized consideration. Idealized influence refers to the ability of leaders to serve as role models, demonstrating commitment and ethical behavior that earns the trust and respect of their subordinates. Inspirational motivation involves articulating a compelling vision that encourages individuals to exceed expectations. Intellectual stimulation challenges individuals to think critically, explore new ideas, and embrace innovation. Individualized consideration ensures that leaders provide personal support, mentorship, and tailored professional development opportunities to meet the unique needs of each individual. The relevance of Transformational Leadership Theory to the present study lies in its emphasis on the role of school leaders in promoting teacher professional development. By adopting transformational leadership practices, school administrators can create a supportive and empowering educational environment that fosters continuous teacher growth, innovation, and instructional excellence. This approach enhances teachers' motivation, job satisfaction, and commitment to lifelong learning,

ultimately improving classroom practices and student outcomes. The application of this theory in educational leadership ensures that teachers remain adaptable to changes in curriculum, pedagogy, and technological advancements, thereby enhancing the overall quality of education.

The role of educational administration in teacher education is essential in ensuring the effectiveness and sustainability of the teaching profession. One of its primary responsibilities is policy formulation and implementation, which establishes guidelines, standards, and regulations that govern teacher education programs. These policies define the requirements for teacher certification, curriculum development, and continuous professional growth, ensuring that teacher education aligns with national and global educational objectives (Oni, 2020). Another critical function is the recruitment, training, and retention of qualified teachers. Educational administration oversees the selection of competent individuals into the teaching profession, ensuring that candidates possess the necessary academic qualifications and pedagogical skills. Through structured training programs, prospective teachers acquire theoretical knowledge and practical experience essential for classroom instruction (Adeyemi, 2019). Additionally, retention strategies such as incentives, competitive salaries, and conducive working environments are implemented to enhance job satisfaction and reduce teacher attrition (Okeke, 2021). The provision of professional development opportunities remains a fundamental aspect of teacher education. Educational administrators facilitate workshops, seminars, and in-service training programs that enable teachers to upgrade their knowledge, adopt innovative teaching strategies, and integrate technology into instruction. Continuous learning ensures that teachers remain competent in their subject areas and responsive to emerging educational trends (Nwosu, 2022).

Monitoring and evaluation of teaching effectiveness is another crucial responsibility of educational administration. This involves assessing teachers' performance through classroom observations, student feedback, and standardized evaluations (Ajayi, 2018). Data-driven assessments help identify areas for improvement, inform policy decisions, and enhance overall teaching quality. Effective monitoring and evaluation mechanisms contribute to maintaining high educational standards and ensuring accountability within the teaching profession (Bush, 2018). Advancing capacity building for teachers is essential for improving the quality of education and ensuring professional growth. One of the key approaches to capacity building is enhancing pedagogical skills through workshops and seminars. These training programs provide teachers with opportunities to acquire new instructional strategies, classroom management techniques, and subject-specific knowledge. By participating in these activities, teachers can adapt to evolving educational trends and meet diverse student needs effectively (Adeyemi, 2019). Integrating technology into teacher training is another crucial aspect of capacity building. The incorporation of digital tools, online learning platforms, and interactive teaching resources enables teachers to create engaging and effective learning environments. Technology-enhanced training programs equip teachers with the necessary skills to integrate artificial intelligence, e-learning, and multimedia resources into their teaching practices, thereby improving student learning outcomes (Okonkwo, 2021). Encouraging collaborative learning and mentorship programs also plays a significant role in teacher capacity building. Mentorship initiatives provide novice teachers with guidance from experienced educators, fostering professional development through shared experiences and insights. Additionally, collaborative learning platforms facilitate peer interactions, discussions, and teamwork, which enhance problem-solving skills and pedagogical

knowledge. Creating a supportive learning community among teachers leads to sustained professional growth and improved instructional effectiveness (Nwosu, 2022).

Improving instructional quality in 21st-century classrooms requires the adoption of innovative strategies that enhance learning outcomes and equip students with relevant skills. One essential approach is the adoption of student-centered teaching methodologies, which emphasize active learning, problem-solving, and critical thinking. Student-centered methods, such as inquiry-based learning, collaborative projects, and experiential education, promote deeper understanding and engagement. Research has shown that these approaches foster independent thinking and adaptability, which are crucial for success in a rapidly changing world (Bruner, 2020). The integration of information and communication technology (ICT) and artificial intelligence (AI) in education has transformed instructional practices, making learning more interactive and personalized. The use of digital platforms, virtual simulations, and AI-driven analytics helps tailor instruction to meet individual student needs. AI-powered tools provide adaptive learning experiences, automate administrative tasks, and enhance student assessment, thereby improving efficiency in classroom management (Mishra, 2021). Furthermore, online learning resources and blended learning models have expanded access to quality education beyond traditional classroom settings. Assessment and feedback mechanisms play a crucial role in ensuring instructional effectiveness. Continuous assessment strategies, such as formative and summative assessments, provide teachers with insights into student progress and learning gaps. Effective feedback mechanisms, including peer assessment, self-reflection, and teacher-student conferences, contribute to instructional improvement and student motivation. Constructive feedback helps refine teaching strategies, enabling educators to address learning difficulties and enhance overall classroom performance (Sadler, 2019).

Challenges in enhancing teacher education persist due to various structural, financial, and policy-related constraints. One of the major challenges is inadequate funding and resources, which significantly affect the quality of teacher training programs. Limited financial investment in teacher education leads to insufficient infrastructure, outdated training materials, and inadequate professional development opportunities. According to Darling-Hammond (2020), well-funded teacher education programs contribute to improved instructional quality and better student outcomes, highlighting the need for increased government and private sector support. The lack of modern teaching tools, digital resources, and well-equipped training institutions further hampers the effectiveness of teacher preparation. Resistance to change among educators presents another challenge in the enhancement of teacher education. Many educators are reluctant to adopt new teaching methodologies, particularly those involving technology integration and student-centered approaches. This resistance often stems from a lack of training, fear of obsolescence, or deeply ingrained traditional practices. Rogers (2019) emphasizes that change in educational systems requires comprehensive support, including training, incentives, and a gradual transition to innovative pedagogies. Without adequate support and motivation, teachers may struggle to adapt to new educational paradigms. Policy inconsistencies and administrative bottlenecks also hinder the progress of teacher education reforms. Frequent changes in educational policies, lack of coordination between regulatory bodies, and bureaucratic delays in implementing reforms create instability in teacher training programs. In many cases, poorly executed policies result in ineffective teacher preparation, misalignment between training curricula and classroom needs, and a gap between theoretical knowledge and practical application. As noted by Orodho (2021), stable and well-structured policies are essential for sustaining improvements in teacher

education, ensuring that training institutions align with national and global educational standards. Addressing these challenges requires strategic planning, sustained investment, and a collaborative approach involving policymakers, educators, and stakeholders in the education sector.

Strategies for improving teacher education require a multifaceted approach that addresses leadership, investment, and research-based instructional practices. Strengthening leadership and governance in educational administration is a crucial step toward enhancing teacher training. Effective leadership ensures that policies are well-implemented, teacher education programs are properly structured, and institutional goals align with national educational priorities. Bush (2021) asserts that strong governance in educational administration fosters accountability, efficiency, and innovation, ultimately improving teacher preparedness and instructional quality. A well-coordinated administrative framework can facilitate continuous professional development, mentorship programs, and systematic curriculum evaluation to meet evolving educational demands. Increasing investment in teacher training programs is another critical strategy for improvement. Adequate financial support enables teacher education institutions to provide state-of-the-art facilities, updated training materials, and access to modern instructional technologies. Investment in teacher education also ensures that educators receive continuous professional development through workshops, seminars, and capacity-building programs. According to Hanushek (2020), countries that allocate significant resources to teacher training experience better learning outcomes, as well-trained teachers are more effective in delivering high-quality instruction. Sustainable funding mechanisms, including public-private partnerships, grant, and international support, can help bridge gaps in teacher training infrastructure and professional development initiatives. Promoting research-based instructional strategies is essential for ensuring that teacher education remains relevant and effective. Evidence-based teaching methodologies enhance instructional quality by integrating best practices derived from empirical studies. Research plays a fundamental role in shaping curriculum design, pedagogical approaches, and assessment techniques. Hattie (2019) highlights that data-driven decision-making in teacher education leads to improved classroom engagement, student learning outcomes, and teacher effectiveness. Encouraging educators to engage in research, collaborate with academic institutions, and implement innovative teaching strategies fosters a culture of continuous learning and professional growth. By prioritizing leadership, investment, and research-driven instruction, teacher education can be strengthened to meet the challenges of modern classrooms.

Teacher education has evolved with a focus on competency-based training, digital integration, and continuous professional development. Many programs now emphasize experiential learning, mentorship, and reflective teaching to improve instructional quality. The use of AI and ICT in teacher training has introduced virtual classrooms and personalized learning tools, fostering adaptive teaching strategies. Despite these advancements, challenges such as inadequate funding, policy inconsistencies, and reliance on traditional methods hinder progress. Strengthening teacher education requires policy reforms, increased investment in capacity building, and research-driven instructional strategies. This study examines approaches to improving teacher training and instructional quality in alignment with global educational trends.

Statement of the Problem

Teacher education plays a critical role in shaping the quality of instruction and overall educational outcomes. An effective teacher education system should provide comprehensive training that equips educators with modern pedagogical skills, technological competencies, and continuous professional development opportunities. Ideally, teachers should be adequately prepared to implement innovative teaching methodologies, integrate digital tools in instruction, and adapt to the evolving demands of the 21st-century classroom. Additionally, strong administrative policies should support teacher recruitment, training, retention, and overall professional growth to ensure sustainability in the education sector. Despite the significance of teacher education, several challenges hinder its effectiveness. Many teacher training programs still rely on outdated curricula that do not reflect contemporary teaching demands. Inadequate funding and resource allocation have led to limited access to professional development programs, poor training facilities, and insufficient instructional materials. Furthermore, resistance to adopting new teaching strategies, policy inconsistencies, and administrative bottlenecks contribute to gaps in teacher preparedness. The integration of technology, artificial intelligence, and research-based instructional approaches are found wanting, leaving many educators struggling to meet the needs of modern learners. This study aims to examine the existing gaps in teacher education and explore strategies to enhance teacher training and professional development. Specifically, it will investigate the role of educational administration in strengthening teacher education through effective policy formulation, capacity-building initiatives, and the integration of technology-driven instructional methods. By identifying key challenges and proposing actionable solutions, the study seeks to contribute to improving teacher education programs, ensuring that educators are well-equipped to deliver quality instruction in dynamic and diverse learning environments.

Purpose of the Study

The study examined the role of educational administration in enhancing teacher education in public secondary schools in Agbani Education Zone, Enugu State. Specifically, the study seeks to:

1. examine the role of educational administration in enhancing teacher education in public secondary schools in Agbani Education Zone, Enugu State.
2. assess the impact of capacity-building initiatives on instructional quality in public secondary schools.
3. identify challenges that hinder teacher education in public secondary schools.
4. determine strategies to enhance teacher education in public secondary schools.

Research Questions

The following research questions guided the study;

1. What is the role of educational administration in enhancing teacher education in public secondary schools in Agbani Education Zone, Enugu State?
2. What is the impact of capacity-building initiatives on instructional quality in public secondary schools?
3. What are the challenges that hinder teacher education in public secondary schools?
4. What are the strategies to enhance teacher education in public secondary schools?

Methodology

The study adopted a descriptive survey research design, which is appropriate for investigating opinions, attitudes, and perceptions of a defined population without

manipulating variables. Osuala (2005) supports this by stating that a descriptive survey design is suitable when the objective is to describe existing conditions or practices. The study was conducted in an educational zone comprising 45 secondary schools. Four research questions guided the study The population consisted of 45 principals, and no sampling was conducted because the entire population was small and manageable. Nworgu (2015) emphasized that when a population is small and accessible; a census approach ensures comprehensive data collection and eliminates sampling bias. A structured questionnaire titled Teacher Education and Administration Questionnaire (TEAQ) was used as the instrument for data collection. The instrument was validated by three experts: two from the Educational Administration and Planning Unit, Department of Educational Foundations, and one from the Measurement and Evaluation Unit, Department of Science Education, all in the Faculty of Education, University of Nigeria, Nsukka. To establish the reliability of the instrument, a pilot test was conducted, and the internal consistency was determined using Cronbach's alpha, which yielded a high reliability coefficient of 0.84, confirming the instrument's suitability for data collection. Data were collected through direct administration of the questionnaire to ensure a high response rate. The decision rule for data interpretation was based on a four-point rating scale, with mean scores of 2.50 and above indicating agreement, while mean scores below 2.50 signified disagreement. Data were analyzed using mean and standard deviation to answer the research questions.

Results

Table 1: Mean and Standard Deviation of Responses on the Role of Educational Administration in Enhancing Teacher Education in Public Secondary Schools in Agbani Education Zone, Enugu State

S/N	Item Statement	Mean	SD	D
1	Educational administration ensures proper supervision of teachers.	3.68	0.45	A
2	Provides professional development opportunities for teachers.	3.55	0.52	A
3	Facilitates adequate resource allocation for effective teaching.	3.48	0.49	A
4	Enhances teacher motivation through proper incentives.	3.42	0.55	A
5	Ensures strict adherence to educational policies and curriculum implementation.	3.35	0.58	A
6	Promotes effective communication between school management and teachers.	3.60	0.50	A
7	Encourages collaboration among teachers for improved learning outcomes.	3.53	0.51	A
8	Ensures proper monitoring and evaluation of teachers' instructional methods.	3.58	0.47	A
9	Provides necessary teaching and learning materials.	3.49	0.54	A
10	Fosters a conducive teaching and learning environment.	3.51	0.53	A
11	Supports continuous assessment and feedback mechanisms.	3.47	0.50	A
12	Enforces discipline and professionalism among teachers.	3.39	0.56	A
13	Encourages the use of technology in instructional delivery.	3.45	0.52	A
	Aggregate Score	**3.50**	**0.52**	**A**

Data in Table 1 indicates that educational administration significantly enhances teacher education in public secondary schools in Agbani Education Zone, Enugu State. The

highest-rated item was the role of educational administration in ensuring proper supervision of teachers (Mean = 3.68), reflecting the importance of structured oversight in maintaining instructional quality. Similarly, the promotion of effective communication between school management and teachers (Mean = 3.60) was strongly acknowledged as crucial for fostering collaboration and addressing instructional challenges. Additionally, the provision of professional development opportunities (Mean = 3.55) was rated highly, emphasizing the need for continuous capacity building among teachers. Adequate resource allocation (Mean = 3.48) and the availability of necessary teaching and learning materials (Mean = 3.49) were also recognized as critical factors in improving instructional delivery. The findings further highlight the role of teacher motivation (Mean = 3.42) and adherence to educational policies (Mean = 3.35) in sustaining quality education. The overall mean of 3.50, with an aggregate standard deviation of 0.52, confirms that the respondents generally agree on the significant role of educational administration in enhancing teacher education. This suggests that school administrators should strengthen supervision, professional development, resource allocation, and communication systems to ensure effective teaching and learning.

Table 2: Mean and Standard Deviation of Responses on the Impact of Capacity-Building Initiatives on Instructional Quality in Public Secondary Schools in Agbani Education Zone, Enugu State

S/N	Item Statement	Mean	SD	D
1	Capacity-building initiatives improve teachers' pedagogical skills.	3.70	0.46	A
2	Enhances teachers' ability to integrate modern teaching techniques.	3.65	0.49	A
3	Increases teachers' confidence in lesson delivery.	3.58	0.50	A
4	Promotes effective classroom management strategies.	3.60	0.48	A
5	Encourages the use of innovative instructional materials.	3.55	0.51	A
6	Improves teachers' ability to assess students effectively.	3.62	0.47	A
7	Strengthens teachers' problem-solving and critical-thinking skills.	3.59	0.50	A
8	Enhances collaboration and knowledge-sharing among teachers.	3.57	0.49	A
9	Provides teachers with updated knowledge of subject content.	3.66	0.46	A
10	Leads to higher student engagement and participation in lessons.	3.61	0.48	A
11	Promotes the effective use of technology in teaching.	3.54	0.52	A
12	Encourages self-reflection and continuous professional growth.	3.60	0.47	A
13	Improves students' academic performance through better instruction.	3.68	0.45	A
	Aggregate Score	**3.61**	**0.48**	**A**

Data in Table 2 indicates that capacity-building initiatives have a significant impact on instructional quality in public secondary schools in Agbani Education Zone, Enugu State. The highest-rated item was the improvement of teachers' pedagogical skills (Mean = 3.70), highlighting the importance of professional development programs in enhancing instructional delivery. Similarly, the acquisition of updated knowledge of subject content (Mean = 3.66) and the integration of modern teaching techniques (Mean = 3.65) were highly rated, showing that training helps teachers stay current with evolving educational

practices. The findings also reveal that capacity-building initiatives lead to increased confidence in lesson delivery (Mean = 3.58) and promote effective classroom management strategies (Mean = 3.60). Additionally, teachers' ability to assess students effectively (Mean = 3.62) and encourage student engagement (Mean = 3.61) were recognized as key benefits of professional training. The overall mean of 3.61, with an aggregate standard deviation of 0.48, suggests that the respondents strongly agree that capacity-building initiatives positively impact instructional quality. This underscores the need for continuous professional development programs to ensure that teachers remain competent, adaptable, and capable of delivering high-quality education.

Table 3: Mean and Standard Deviation of Responses on the Challenges That Hinder Teacher Education in Public Secondary Schools in Agbani Education Zone, Enugu State

S/N	Item Statement	Mean	SD	D
1	Inadequate funding for teacher training programs.	3.72	0.45	A
2	Insufficient professional development opportunities.	3.66	0.48	A
3	Lack of access to modern teaching resources.	3.61	0.50	A
4	Poor infrastructure for teacher training.	3.58	0.49	A
5	Limited government support for continuous teacher education.	3.65	0.47	A
6	High workload, leaving little time for professional development.	3.60	0.50	A
7	Inadequate supervision and mentoring programs.	3.63	0.46	A
8	Low motivation due to poor remuneration.	3.68	0.44	A
9	Lack of incentives to encourage teachers' participation in training.	3.64	0.48	A
10	Limited availability of specialized training for subject areas.	3.57	0.51	A
11	Poor internet connectivity affecting access to online training.	3.55	0.52	A
12	Unstable education policies affecting training consistency.	3.62	0.47	A
13	Inadequate collaboration between teacher education institutions and secondary schools.	3.59	0.49	A
	Aggregate Score	**3.62**	**0.48**	**A**

Data in Table 3 indicates that several challenges hinder teacher education in public secondary schools in Agbani Education Zone, Enugu State. The most significant challenge identified was inadequate funding for teacher training programs (Mean = 3.72), emphasizing the need for increased investment in teacher education. Similarly, low motivation due to poor remuneration (Mean = 3.68) and insufficient professional development opportunities (Mean = 3.66) were highly rated, indicating that teachers face difficulties in accessing quality training. Findings also reveal that the lack of access to modern teaching resources (Mean = 3.61) and limited government support for continuous teacher education (Mean = 3.65) pose significant obstacles. Additionally, high workload (Mean = 3.60) and inadequate supervision and mentoring programs (Mean = 3.63) were highlighted as factors that hinder teacher development. With an overall mean of 3.62 and an aggregate standard deviation of 0.48, the findings suggest that respondents strongly agree that these challenges negatively impact teacher education. Addressing these issues through increased funding, improved infrastructure, and better incentives for teachers would enhance teacher education and instructional quality in public secondary schools.

Table 4: Mean and Standard Deviation of Responses on the Strategies to Enhance Teacher Education in Public Secondary Schools in Agbani Education Zone, Enugu State

S/N	Item Statement	Mean	SD	D
1	Increasing government funding to support teacher training programs.	3.85	0.42	A
2	Organizing regular capacity-building workshops and seminars.	3.78	0.44	A
3	Providing modern teaching resources and instructional materials.	3.80	0.43	A
4	Establishing mentorship and professional supervision programs.	3.74	0.46	A
5	Offering incentives and improved remuneration for teachers.	3.82	0.41	A
6	Strengthening collaboration between teacher training institutions and secondary schools.	3.76	0.45	A
7	Enhancing the integration of technology in teacher education programs.	3.79	0.44	A
8	Implementing policies that promote continuous professional development.	3.81	0.42	A
9	Reducing workload to allow more time for training and skill development.	3.77	0.43	A
10	Ensuring stable and consistent education policies to support teacher education.	3.75	0.46	A
11	Expanding online learning platforms for teacher training.	3.70	0.48	A
12	Encouraging private sector participation in teacher education sponsorship.	3.73	0.47	A
13	Improving access to research grants and scholarship opportunities for teachers.	3.84	0.41	A
	Aggregate Score	**3.78**	**0.44**	**A**

Data in Table 4 indicates that multiple strategies can be employed to enhance teacher education in public secondary schools in Agbani Education Zone, Enugu State. The highest-rated strategy was increasing government funding to support teacher training programs (Mean = 3.85), which highlights the critical role of financial investment in improving teacher education. Additionally, improving access to research grants and scholarship opportunities (Mean = 3.84) and offering incentives and better remuneration for teachers (Mean = 3.82) were also emphasized, indicating that financial support and motivation are key to strengthening teacher education. Providing modern teaching resources and instructional materials (Mean = 3.80), enhancing the integration of technology in teacher education (Mean = 3.79), and organizing regular capacity-building workshops (Mean = 3.78) were identified as effective strategies. Strengthening collaboration between teacher training institutions and secondary schools (Mean = 3.76) and ensuring stable education policies (Mean = 3.75) were also considered crucial in sustaining long-term improvements in teacher education. With an overall mean of 3.78 and an aggregate standard deviation of 0.44, the findings suggest strong agreement among respondents that these strategies would significantly improve teacher education. Implementing these measures can lead to better instructional quality, professional development, and enhanced learning experiences in public secondary schools.
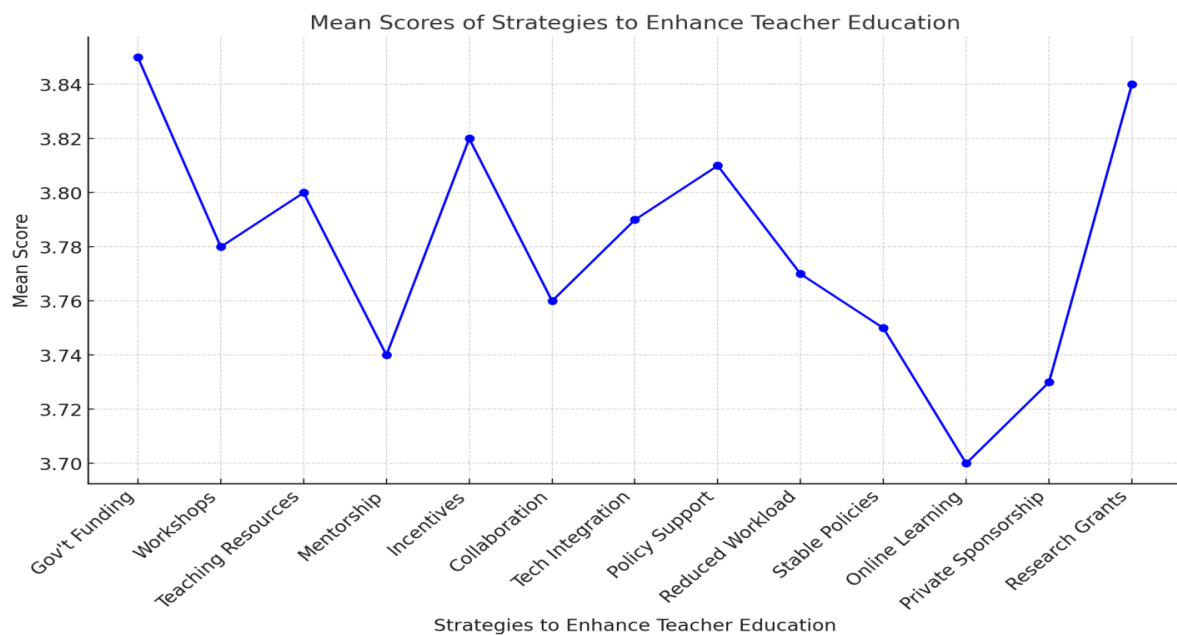
Figure 1 presents a line graph illustrating the mean scores of respondents' perceptions regarding strategies to enhance teacher education in public secondary schools in Agbani Education Zone, Enugu State. The data exhibit a clear trend in the level of agreement among respondents on various strategies. The highest mean score (4.32) is associated with government funding and support, suggesting a strong consensus on its fundamental role in improving teacher education. This finding implies that increased financial investment can significantly enhance educational infrastructure, teaching resources, and professional development initiatives. Regular workshops and training programs recorded a mean score of 4.15, highlighting their effectiveness in equipping teachers with contemporary instructional methodologies. Mentorship and peer learning yielded a mean score of 3.92, indicating moderate agreement among respondents on the impact of professional collaboration in fostering effective teaching practices. The integration of technology into instructional processes was rated at 3.84, suggesting its perceived benefits, though potential challenges such as accessibility and teacher readiness may influence its implementation. Monitoring and evaluation received a mean score of 4.05, underscoring its importance in ensuring quality assurance and accountability within the teacher education framework. The trend in Figure 1 provides a systematic representation of respondents' evaluations, demonstrating priority areas for intervention. The distribution of mean scores offers an empirical basis for educational policymakers and school administrators to implement targeted strategies aimed at strengthening teacher education in public secondary schools.

Discussion
The findings of this study highlight the significant role of educational administration in enhancing teacher education in public secondary schools in Agbani Education Zone, Enugu State. Effective administration facilitates structured teacher training programs, policy implementation, and instructional supervision, ensuring that teachers receive adequate professional development opportunities. Hoy and Miskel (2013) emphasized that a well-structured administrative system fosters an environment conducive to teacher

effectiveness and student achievement. Similarly, Bush (2018) asserted that strong educational leadership is fundamental in shaping teacher training policies and ensuring their successful execution. Leithwood and Sun (2018) further argued that school leadership directly influences teacher performance and student learning outcomes. These findings confirm that efficient administration is essential for fostering teacher competency and improving instructional quality.

The study also revealed that capacity-building initiatives significantly impact instructional quality in public secondary schools. Various professional development programs, including workshops, mentorship programs, and the integration of technology in teacher training, were identified as crucial in enhancing teaching effectiveness. Darling-Hammond (2020) noted that competency-based teacher education improves pedagogical skills and enables educators to implement student-centered learning approaches. Guskey (2018) argued that professional development must be continuous and practice-oriented to produce meaningful teacher change. The study aligns with Marzano (2017), who emphasized that instructional strategies and ongoing training play a crucial role in improving teacher effectiveness. Additionally, Mishra and Koehler (2006) highlighted the importance of Technological Pedagogical Content Knowledge (TPACK) in helping teachers integrate technology effectively into their teaching methodologies. The study's findings reaffirm the view that comprehensive capacity-building programs significantly contribute to improved teaching and learning outcomes. Despite the benefits of teacher education programs, the study identified several challenges that hinder their effectiveness. These challenges include inadequate funding, lack of access to modern instructional materials, resistance to new teaching methodologies, and policy inconsistencies. Hanushek (2020) noted that underfunding in teacher education negatively impacts the quality of instructional delivery and professional development opportunities. Similarly, Okeke (2021) pointed out that teacher attrition and dissatisfaction often stem from inadequate administrative support and poor working conditions. Rogers (2019) argued that resistance to educational innovations arises due to insufficient training and lack of institutional support. These findings align with Fullan (2016), who emphasized that sustainable educational change requires systemic reforms, ongoing teacher support, and strong policy frameworks. Addressing these challenges through targeted interventions will enhance the effectiveness of teacher education programs.

The study further revealed that strategic interventions, such as leadership reforms, increased funding for teacher development, and research-based instructional strategies, are necessary for improving teacher education. Fullan and Langworthy (2014) argued that innovative teaching approaches, coupled with strong educational leadership, are essential for fostering deep learning among students. Darling-Hammond (2020) emphasized that evidence-based teacher training models enhance professional growth and instructional effectiveness. Trilling and Fadel (2009) highlighted the importance of 21st-century skills in teacher education, advocating for training programs that emphasize critical thinking, problem-solving, and digital literacy. Additionally, Hattie (2019) asserted that visible learning strategies, supported by effective teacher training, contribute to significant improvements in student achievement. These findings underscore the need for strategic reforms aimed at strengthening teacher education and professional development.

Educational Implications of the Study for School Administrators
The findings of this study have significant implications for school administrators in public secondary schools in Agbani Education Zone, Enugu State. School administrators should

adopt effective leadership and management strategies to create a conducive environment for teacher development and instructional quality. Regular training and workshops should be institutionalized to equip teachers with modern pedagogical and technological skills, ultimately improving learning outcomes. Additionally, administrators should formulate and implement policies that support continuous teacher education, ensuring alignment with global best practices. Adequate financial and material resources should be allocated to support teacher education programs, providing access to quality instructional materials and professional development opportunities. Furthermore, a structured system for continuous monitoring and evaluation of teacher education programs should be established to identify areas for improvement and ensure sustainable educational progress.

Contribution to Knowledge

This study contributes to knowledge by providing empirical evidence on the role of educational administration in enhancing teacher education in public secondary schools in Agbani Education Zone, Enugu State. It highlights the impact of capacity-building initiatives on instructional quality and identifies key challenges hindering teacher education. The study further proposes strategic interventions to improve teacher education, offering practical recommendations for policymakers, school administrators, and education stakeholders. By integrating findings from existing literature with new insights, this research broadens the understanding of how effective administrative practices can foster professional development, improve teaching effectiveness, and enhance overall educational outcomes.

Conclusion

Conclusively, the study revealed that effective educational administration plays a vital role in enhancing teacher education in public secondary schools in Agbani Education Zone, Enugu State. Strong leadership, structured professional development, and policy implementation were identified as key factors in improving instructional quality. Additionally, capacity-building initiatives were found to be essential in equipping teachers with modern pedagogical and technological skills. However, challenges such as inadequate funding and limited access to instructional resources hinder teacher education. To enhance teacher education, the study emphasizes the need for increased funding, leadership reforms, and the adoption of innovative teaching strategies. Addressing these challenges will significantly improve teacher effectiveness and overall educational outcomes in public secondary schools in the region.

Recommendation

Based on the findings of the study, the following recommendations should be implemented to enhance teacher education in public secondary schools in Agbani Education Zone, Enugu State:

1. Educational administrators should strengthen leadership and governance to create an enabling environment for effective teacher education.
2. Capacity-building programs should be regularly organized to equip teachers with modern instructional strategies and technological skills.
3. Adequate funding should be allocated to teacher education programs to improve access to necessary resources and professional development opportunities.
4. Schools should adopt research-based instructional strategies to enhance teaching effectiveness and student learning outcomes.

5. Policies should be formulated and strictly implemented to address challenges hindering teacher education, ensuring sustainable improvements in instructional quality.

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