

Quality of Teachers' Professional Performance and Students' Academic Achievement: A Correlational Study at Najran University

Amel Thafer Saad Alshehry¹

Abstract

This is a study of the correlation between instructors' professional competence and the academic progress of students in the Optimal Investment Program. Employing an experimental analytical approach, it focuses on a representative cohort consisting of 89 students and 17 teachers from Najran University's Optimal Investment Program. The research scrutinizes educators' professional performance, encompassing their ability to identify and cater to learners' needs, teaching methodologies, as well as assessment and developmental procedures. The findings highlight the significant impact of educators' professional skills, spanning personal attributes, diagnostic capabilities, and educational initiatives, on students' academic performance, especially within such specialized fields. Further, it evaluates these professional traits and examines how they correlate with students' academic achievements. Notably, key performance metrics witnessed a noteworthy increase following interventions. The study emphasizes that instructors who exhibit adaptability, attentiveness to evolving educational needs, and a commitment to continuous professional development significantly enhance students' learning experiences and academic achievements. The findings hold relevance for educational policymakers, administrators, and institutions globally as they emphasize the crucial role of educator development and innovative instructional approaches in fostering academic success, particularly within specialized higher education programs. The study contributes to the discourse on educational quality by presenting a comprehensive framework for enhancing higher education teaching and learning outcomes and impacts occupational sectors with implications for the global economy.

Keywords: *Optimal Investment Program, quality of professional performance, academic achievements, learning outcomes.*

Introduction

The current academic environment is increasingly under scrutiny concerning the level of professional performance and its subsequent influence on student achievements. This renewed emphasis on a global perspective is based on the increasing acknowledgment of education as a crucial element in both economic and social progress. The correlation between professional performance in educational environments and students' academic success is being seen as a worldwide need. The significance of excellent teaching and its direct impact on learning outcomes has been underlined by the World Bank and UNESCO, indicating that the role of educators is pivotal in determining the future of

¹ Department of Curriculum and Teaching Methods, College of Education, Najran University, Saudi Arabia, atalshhry@nu.edu.sa

economies and society [1]. In the realm of higher education in investment programs, this association takes a heightened level of importance as these need a high degree of professional expertise as they train students for positions in the ever-changing and intricate field of finance and economics. The OECD has emphasized the significance of connecting educational quality with professional achievements, highlighting that the competencies and information imparted in these programs have a direct influence on the economic prospects of countries [2].

Najran University, situated in Saudi Arabia, makes for an interesting case study within this global framework. The Kingdom of Saudi Arabia is now implementing substantial educational changes as part of its Vision 2030 initiative, with the objective of harmonizing its educational standards with international benchmarks and economic requirements [3]. The Optimal Investment Programs (henceforth OIP) offered by the university also align with the national agenda of providing students with the required skills and knowledge to make valuable contributions to the Kingdom's economy, which is undergoing diversification. The importance of this study, however, goes beyond the boundaries of Najran University or Saudi Arabia; it adds to the wider discussion on education quality and its influence on professional sectors worldwide, a subject of interest to educational policymakers, academic institutions, and international organizations such as the United Nations Educational, Scientific and Cultural Organization (UNESCO). The primary issue this study aims to tackle is the limited comprehension and empirical proof of the influence of instructors' professional performance in specialized investment programs on students' academic success.

Literature review

Although broad educational theories highlight the importance of teacher quality in influencing learning outcomes [4], there is a noticeable lack of application of these ideas to higher education, especially in specialized subjects such as investment and finance. The disparity is particularly noticeable in areas like Najran, where educational institutions are swiftly changing and adjusting to meet global educational benchmarks and economic demands. Investment programs are intrinsically complex and need a sophisticated approach to instruction. They need both academic quality and practical relevance to the constantly changing financial industry [5]. The difficulty is in measuring and assessing the caliber of professional work inside a highly specialized academic environment. Inquiries emerge over the definition of successful teaching in these programs, their conformity with industry benchmarks, and the direct relationship between these teaching approaches and students' academic achievements [6]. The issue is exacerbated by the distinct socio-economic and cultural circumstances of Najran University. The institution is strategically positioned at the vanguard of educational reform and economic diversification initiatives to achieve the objectives outlined in the Vision 2030 plan. There is a need to critically examine the actual implementation of these innovations in teaching methodology, the resulting effects in the university setting in specialist programs such as optimum investment, on-ground improvisations of pedagogical approaches to accommodate these changes, and their contribution to student achievement [7].

One critical aspect frequently discussed in the literature is the influence of educators' personal attributes on students' learning. Studies by Smith and Johnson [8] and Smith et al. [9] emphasize the importance of instructors' interpersonal skills, empathy, adaptability, and enthusiasm in creating engaging learning environments. These personal qualities are not just facilitators of knowledge transfer; they are instrumental in motivating students, particularly in challenging and specialized subjects. The correlation between these attributes and students' academic achievements has been consistently noted, with research suggesting that educators who possess strong personal skills tend to foster higher levels of understanding and engagement among their students.

The ability of educators to assess and diagnose student learning requirements is another key factor impacting academic success, as highlighted by Williams and Davis [10]. This study in higher education contexts demonstrates that tailored teaching approaches, based on an accurate understanding of individual student needs, lead to significant improvements in academic performance. This is especially relevant in specialized investment programs, where the complexity of the subject matter can create significant learning barriers. The customization of teaching strategies to meet these diverse needs is a recurrent theme in the literature, with numerous studies underscoring its importance in enhancing student outcomes. Furthermore, the planning and execution of educational programs by faculty members are critical determinants of student success, as explored by Davis and Thompson [11]. This study in business education reveals that well-structured courses, which are meticulously planned and executed, contribute significantly to student comprehension and engagement. In specialized fields such as finance and investment, the clarity and organization of the curriculum are particularly vital due to the intricate nature of the subjects involved. The pedagogical approaches adopted by educators, along with their assessment and development methods, have also been extensively examined. Innovative teaching strategies that encourage active learning and critical thinking, as advocated by Martin and Thompson [12], have been found to be particularly effective in specialized programs. Similarly, the development of robust assessment methods that accurately measure students' understanding and provide constructive feedback is crucial. In the field of economics education Kim [13] illustrates how adaptive assessment techniques can enhance the learning process, leading to better academic outcomes.

The literature also frequently highlights the need for continuous professional development of educators, especially in fields that are rapidly evolving, such as finance and investment. Ongoing training and development are crucial for instructors to stay abreast of the latest industry trends and educational methodologies. Khan and Ali [14] emphasize that faculty development programs significantly impact teaching effectiveness and, in turn, student achievement. In addition to these core areas, there is a growing body of research focusing on the cultural aspects of teaching and learning. Smith and Jones [15] explores how cultural influences impact educational practices and student engagement, particularly in diverse and multicultural settings. This is particularly pertinent for institutions like Najran University, which operate in unique socio-economic and cultural contexts. Moreover, the literature stresses the importance of aligning educational strategies with global educational benchmarks and economic demands. Regarding global education trends Zhao [16] highlights the need for educational institutions to adapt their teaching methodologies and curricula to meet international standards, particularly in specialized fields that directly impact economic development.

Research objectives

Generally, this study aims to evaluate the impact of quality of professional performance on academic achievement of students of OIP at Najran University. Specifically, it aims to:

(1) assess the impact of the quality of professional performance on the academic achievement of diploma students enrolled for the Diploma of Optimal Investment Program at Najran University; (2) Recognize the dimensions of the quality of professional performance.

Research questions

1. What is the impact of instructors' personal qualities on students' academic progress in Optimum Investment Programs at Najran University?
2. To what extent does measuring and diagnosing students' learning requirements contribute to their academic achievement in these programs?

3. To what extent do faculty members' planning and execution of educational programs impact the academic performance of Saudi students in Optimum Investment courses?
4. To what level do teaching strategies, assessment, and development processes influence Saudi students' achievements?

Methodology

Research design

The study used experimental analysis to answer the research questions. First, a comprehensive framework was designed to assess professional performance covering educators' personal skills, evaluation and diagnosis skills, program creation and execution abilities, instructional approaches, and assessment and improvement knowledge. A thorough and consistent inspection was achieved by carefully establishing these parameters. The research was held during the academic year 1444 - 1445 AH, which allowed for a specific timeframe to gather and analyze data that spanned a full cycle of academic activities and evaluations that are pertinent to the study's aims. The study was geographically confined to Najran University, situated in Najran City, Saudi Arabia. The specific geographic scope of this study enabled a thorough analysis of the educational setting and methodologies unique to this institution, rendering the results very relevant to the higher education landscape in Saudi Arabia.

Participants

The investigation was done under defined parameters to guarantee a concentrated and controllable scope. The research focused on a particular cohort of participants, i.e., 89 students enrolled in the Diploma in OIP at Najran University as well as 17 teachers. The research aim was to gather insights into the influence of professional performance quality on students who are directly involved in an area that is academically challenging and of great practical value in the region.

Instruments

The research examined data from numerous viewpoints, including educator effectiveness, student achievement variability, and patterns that may indicate direct or indirect impacts of educator performance on students' success in the educational programs. A questionnaire was designed to collect data on teachers' performance and a test was used to check the students' performance pre and post the intervention. The aim of the questionnaire was to effectively measure the quality of teachers' professional performance. This tool was structured to facilitate both pre- and post-measurement, enabling a comprehensive assessment of changes and impacts over time. The test covered several critical axes that are integral to professional performance in an educational setting: personal abilities, which encompassed the innate and developed skills of the teachers; measurement and diagnosis, which involved the capability of the teachers to assess and identify student needs and learning gaps; preparation of educational plans, focusing on the strategic development of course outlines and materials; implementation of educational plans, which looked at the practical application of these plans in the classroom; use of teaching techniques, assessing the variety and effectiveness of pedagogical methods employed; and finally, evaluation and development, which examined how teachers evaluate student performance and their own teaching methods, and how they implement improvements. This comprehensive tool was central to the research, providing a robust framework for analyzing the relationship between the educators' professional performance and the academic achievement of students in the OIPs at Najran University.

Procedures

For data collection, a representative sample of instructors and students from the OIP at Najran University was chosen. The selection of educators was based on their active participation in the designated programs, while students were picked to provide a varied representation of performance levels and backgrounds. The data collection was carried out utilizing a custom-designed research instrument, which enabled the assessment of educators' professional performance before and after the intervention. The measures included personal aptitudes, assessment and diagnostic abilities, formulation and execution of educational strategies, utilization of instructional methodologies, and evaluation and enhancement proficiencies. In addition, the academic accomplishments of students were methodically documented, spanning a range of indications of academic attainment.

Ethical consideration

During the study process, due attention was given to ensuring that all ethical norms were upheld, especially those related to the privacy, consent, and well-being of participants. Informed consents, demonstrating participants' complete understanding of the research's aims, methods, and their rights, including the ability to withdraw from the study at any point without facing any consequences, were obtained. Confidentiality of data and identities was strictly maintained, since all data were anonymized to safeguard the identities of participants. The ethical considerations of working with educational data were carefully addressed to prevent any disruption to the educational process or imposition of excessive hardship on the participants during data collection and processing. Furthermore, the study followed the ethical principles established by Najran University and the wider academic community, guaranteeing that the research was carried out with honesty and consideration for the participants and the subject of study. The adherence to ethical research standards not only protected the participants but also bolstered the study's results in terms of credibility and dependability.

Data analysis

Utilizing descriptive statistics to delineate the fundamental characteristics of the data, the statistical analysis proceeded to employ inferential statistics to examine hypotheses pertaining to the correlations between the performance of educators and the academic achievement of students. By utilizing these tools, the researcher was able to gain a more nuanced comprehension of the data, which in turn enabled him to derive significant conclusions and insights from the study.

Results and Discussion

RQ1: What is the impact of instructors' personal qualities on students' academic progress in Optimum Investment Programs at Najran University?

The influence of teachers' personal traits on students' academic achievement in the Najran University OIP can be seen and evaluated in detail as shown in Table 1. The pre-assessment mean score of 2.59 with a standard deviation of 0.23 indicates that students' academic performance was at a moderate level before the program's implementation, which focused on boosting teachers' personal characteristics. The standard deviation shows that student performance varies less than expected, pointing to a cohort-wide stable level of academic success. On the other hand, a substantial improvement is shown by the post-assessment mean score of 4.44 with a standard deviation of 0.45, which classifies the students' academic achievement as very high. A wider range of performance levels among students is shown by the post-assessment's higher standard deviation, which may be related to differing degrees of reactivity to the teachers' enhanced personal attributes.

Table 1. Pre and post assessment on the impact personal qualities on students' academic progress

Assessment	Mean	SD	Interpretation
Pre	2.59	0.23	Moderate
Post	4.44	0.45	Very High

Legend: 4.20-5.00 – Very High; 3.40-4.19 - High; 2.60-3.39 - Moderate; 1.80-2.59 - Low; 1.00-1.79 - Very Low

The significant increase in students' academic achievement from "moderate" (M=2.59) to "very high" (M=4.44) highlights the significant influence that teachers' personal attributes have on their students' learning. This is consistent with the educational philosophy that highlights how crucial the role of the instructor is to students' academic success. Strong personal traits like empathetic communication, flexibility, interest, and adaptability may help instructors create more engaging and encouraging learning environments. This is especially true in specialist professions like investment, where teachers must use a variety of abilities to help students grasp and apply the complicated subject matter. Additionally, the higher standard deviation in the post-assessment results might indicate that, while most students benefitted from the improved teaching strategy, each student benefitted differently. Several variables, including the learning styles of the students, their initial proficiency levels, and the amount of engagement with their teachers, may have an impact on this variety. This improvement can be attributed to the empathy, adaptability, enthusiasm, and effective communication that earlier studies [17][18][19] have found to have a substantial impact on student engagement and learning. Brown et al. [20] held that this phenomenon is conspicuous in disciplines that demand intricate comprehension of subject matter, where the interaction between instructors and learners is vital. Furthermore, Johnson [21] confirmed that the variability in student reactions to these enhanced pedagogical approaches underscores the significance of tailored and adaptable instructional approaches that accommodate various learning preferences. The results of this study further support the conviction that educators engage in continuous professional development that addresses both pedagogical competencies and personal qualities that improve the efficacy of instruction. Moreover, the findings emphasize Williams and Davis's [22] ideas regarding the importance of implementing educational policies and programs that promote this growth and create favorable conditions for the achievement of students.

RQ2: To what extent does measuring and diagnosing students' learning requirements contribute to their academic achievement in these programs?

There has been a noticeable increase in students' performance as summarized in Table 2. Data indicates that the pre-assessment results, which had a mean score of 84.33 and a standard deviation of 0.89, initially indicated that the students had performed well academically. This shows that while students were doing well before customized teaching based on individual learning needs was implemented, there was still scope for improvement. However, the post-assessment findings showed a significant improvement in academic performance, with the standard deviation falling to 0.67 and the mean score increasing to 93.44. Both improved academic success and more consistent performance throughout the cohort are shown by the mean score improvement and the decreased standard deviation. The post-assessment rating of 'Outstanding' highlights the significant improvement in students' learning outcomes that individualized learning tactics brought about.

Table 2. The contribution of measuring and diagnosing students' learning requirements on their academic achievement

Assessment	Academic Performance	SD	Interpretation
Pre	84.33	0.89	Good
Post	93.44	0.67	Outstanding

This enhancement in students' academic performance is consistent with recent research in the fields of educational psychology and pedagogy. Presently, scholarly investigations emphasize the criticality of personalized learning methodologies in augmenting academic achievement. Smith et al. [23] underscored the importance of customized instructional approaches in enhancing student engagement and comprehension, specifically in domains that require specialized knowledge. In line with this notion, Johnson and Williams [24] discovered that when diverse student populations are provided with individualized learning plans that are developed after conducting in-depth needs assessments, academic performance is more consistent and elevated. Consistent with the discoveries, Davis and Thompson [25] emphasized in their report that personalized education cultivates a learning environment that is more inclusive and equitable, while also augmenting academic achievement. These studies collectively demonstrate the increasing agreement in educational research that to maximize academic achievement, particularly in specialized and technically challenging programs, personalized and adaptive teaching methods that are based on an accurate understanding of student learning needs are indispensable.

RQ3: To what extent do faculty members' planning and execution of educational programs impact the academic performance of Saudi students in Optimum Investment courses?

The mean score prior to the assessment was 3.39, classified as 'high' according to the scale's standard deviation (SD), which is 0.33. This finding indicates that the faculty members possessed proficient planning and execution skills prior to the introduction of the targeted educational strategies. Nevertheless, the mean score following the assessment exhibits a significant rise to 4.23, accompanied by a marginally greater standard deviation of 0.54, and is classified as 'very high'. This outcome suggests that the faculty's capacity to strategize and implement educational programs improved substantially subsequent to the intervention, which may have encompassed improved training, revised pedagogical approaches, or other reforms in education.

Table 3. The effect of faculty members' adopting planning and execution of educational programs on students' performance

Assessment	Mean	SD	Interpretation
Pre	3.39	0.33	High
Post	4.23	0.54	Very High

The efficacy of the strategies implemented to improve teachers' performance in educational planning and implementation is evidenced by the rise in the average score from the 'high' to 'very high'. The likelihood of encountering responses with varying degrees of significance among different teachers is suggested by the higher standard deviation observed in the post-assessment. The observed diversity may be ascribed to teachers' initial levels of proficiency or individual disparities in adjusting to novel pedagogical approaches. Students' academic achievement will almost certainly be directly impacted favorably by teachers' performance enhancement. Sophisticated subjects, such as optimal investment, necessitate a curriculum that is unambiguous, organized, and proficiently administered. In such cases, the efficacy of program planning and implementation is paramount. Contributing to enhanced academic performance,

improved teaching strategies might have furnished students with more explicit instructions, more organized study materials, and more active participation in class. Both policy formulation and teaching methodology in higher education are significantly impacted by these findings. To begin with, the study has emphasized the criticality of ongoing professional development for academic staff, specifically in specialized domains such as optimal investment that are known for their rapid evolution. Mentoring quality and, as a result, learning outcomes can be substantially enhanced through investments in teacher development. Furthermore, it is emphasized in the study that academic establishments must consistently evaluate and revise their pedagogical approaches [26].

RQ4: To what level do teaching strategies, assessment, and development processes influence Saudi students' achievements?

The results presented in Table 4 are indicative of significant findings regarding the impact of teaching strategies, assessment, and development processes used by the teachers. The pre-assessment scores averaged at 2.68 with a standard deviation of 0.33, categorizing the initial impact of teaching strategies, assessment, and development processes as 'moderate'. In contrast, the post-assessment scores showed a remarkable increase, averaging at 4.44 with a standard deviation of 0.57, elevating the impact level to 'very high'. This notable improvement suggests a substantial enhancement in the effectiveness of teaching strategies and the assessment and development processes employed by the educators over the course of the program.

Table 4. The influence of teaching strategies, assessment, and development processes on students' achievements

Assessment	Mean	SD	Interpretation
Pre	2.68	0.33	Moderate
Post	4.44	0.57	Very High

The significant increase in the post-assessment scores implies that the interventions or changes made in teaching strategies, assessment techniques, and developmental processes were highly effective. It reflects the adaptive and responsive nature of teachers in optimizing their methodologies to cater to the specific needs of students in the OIP. The influence of teaching and assessment strategies on students' academic performance has been affirmed by previous studies. Smith et al. [27] emphasized the favorable effects that adaptive pedagogical approaches have on student engagement, specifically within specialized domains such as investment. This is further supported by the findings of Jones and Williams [28] which established a direct correlation between the implementation of novel assessment methods and enhanced scholastic achievement. Furthermore, the study highlighted the importance of ongoing professional development for educators, which aligns with the conclusions drawn by Brown and Johnson [29] which contended that faculty members who participate in continuous training implement more efficient teaching methodologies. The studies thus emphasize the significance of adapting instructional approaches to accommodate the ever-changing demands of learners and the academic setting. This viewpoint is also shared in the current research findings at Najran University.

The results also highlight the importance of continuous development and assessment in educational settings, particularly in specialized programs such as those offered at Najran University. The improvement in scores from the pre to the post-test may also suggest that students were better able to grasp complex investment concepts, apply critical thinking, and engage more deeply with the course material due to enhanced teaching and assessment methods. This aligns with educational theories that emphasize active learning and adaptive teaching as key drivers of student success, especially in higher education settings where subject matter can be complex and challenging.

These findings have several important implications. The study advocates for the continuous evolution of teaching strategies and assessment methods to align with the changing dynamics of the educational environment and student needs. It encourages teachers to adopt a more student-centered approach, adapting their methods to enhance student engagement and understanding. It highlights the importance of supporting faculty development initiatives and investing in effective teaching and assessment tools to promote higher academic achievement. The study's findings also emphasize that effective teaching strategies, coupled with robust assessment and development processes, play a crucial role in enhancing student learning and achievement in specialized programs. It calls for a sustained commitment to teacher development and teaching innovation as key components in advancing academic success in higher education. Moreover, the results of this study are highly consistent with other scholarly works that highlight the critical significance of these elements in augmenting learning success in tertiary education.

Conclusions

The research was conducted at Najran University, Saudi Arabia to understand the correlation between the academic performance of students enrolled in Optimal Investment Programs and the quality of professional performance of teachers in this specialized domain. Findings indicate the considerable impact that the professional performance of teachers has on augmenting the academic achievements of students. This includes their personal attributes, capacity to assess and diagnose student requirements, organization and implementation of educational initiatives, and utilization of efficacious pedagogical approaches, evaluation methods, and growth procedures. The substantial enhancement in scores obtained after the evaluation in multiple domains highlights the efficacy of these interventions. Teachers who demonstrate adaptability, responsiveness, and ongoing professional development make a substantial impact on student achievement and learning, according to the findings of this study. This is especially apparent in specialized programs such as OIPs offered at Najran University, where a sophisticated instructional approach is required due to the intricate nature of the subject matter. The study underscores the importance of continuous investment in faculty development and the adaptation of pedagogical approaches to correspond with the evolving educational environment and the needs of students. In addition, a more student-centered approach that emphasizes active participation and individualized learning may result in greater academic achievement, according to the findings. Furthermore, the research illuminates the importance of incorporating adaptive pedagogical approaches and novel evaluative methods to guarantee the continued relevance and efficacy of educational material in response to the demands of the contemporary financial sector. The results presented in this study hold relevance beyond the borders of Najran University; it offers educational policymakers, administrators, and institutions globally invaluable insights. It supports the notion that a continuous dedication to improving the abilities of teachers and teaching approaches is essential for fostering academic achievement in tertiary education, particularly in specialized programs. The exhaustive analysis and findings of the study provide a road map for enhancing the quality of instruction and learning outcomes, underscoring the ever-changing and dynamic nature of education in the present era. This study thus makes a significant contribution to the academic conversation regarding the influence of educational quality on professional domains, emphasizing the critical importance of implementing effective pedagogical approaches and rigorous evaluation and growth procedures in shaping the trajectory of worldwide economies and societies.

Recommendations

The results of this investigation conducted at Najran University support several recommendations. Prior to anything else, continued emphasis should be placed on professional development programs for educators, particularly in specialized disciplines

such as optimal investment. In addition to emphasizing pedagogical skills, these programs ought to also highlight personal attributes that augment the efficacy of instruction. Furthermore, it is advisable that instructional approaches and evaluation techniques undergo constant development to accommodate the shifting demands of learners and the academic environment. To achieve this, an instructional approach that prioritizes the needs and interests of the students and incorporates adaptive pedagogical techniques that accommodate various learning preferences is required. To increase student engagement and comprehension, academic institutions ought to allocate resources towards the acquisition of efficacious teaching and assessment tools. This includes the utilization of technology to facilitate novel pedagogical approaches. In conclusion, it is imperative that policymakers and administrators lend their support to endeavors that promote faculty development, thereby guaranteeing that instructors possess the necessary skills and knowledge to confront the complexities of contemporary, specialized education. The primary objective of these suggestions is to cultivate an educational setting that is more efficient, dynamic, and adaptable, with the intention of substantially enhancing student learning results.

Limitations

Although comprehensive, this study had certain limitations. It was restricted to Najran University in terms of geography, potentially constraining the applicability of the results to alternative institutions or regions characterized by distinct economic, cultural, or educational environments. The study's narrow scope, which concentrated on a particular cohort of students enrolled in the Optimal Investment Programs, might not comprehensively represent the varied experiences and achievements of students in alternative academic programs or at higher academic levels. Furthermore, it should be noted that the research design relied on experimental analysis, which, although valuable for detecting correlations, may not provide definitive evidence of a causal relationship between student academic achievement and the caliber of professional performance. The constraints indicate that although the results offer significant knowledge, they must be interpreted considering the circumstances at Najran University and the extent of the research.

Guidelines for future research

Subsequent investigations ought to strive to broaden the scope of scrutiny by incorporating a more extensive array of academic establishments, encompassing both domestic and international locations, to widen the applicability of the results. Additionally, future research could investigate the enduring effects of professional performance quality on the achievements of students, monitoring the professional development and societal contributions of university students. Furthermore, it would be beneficial for future studies to explore the potential of online learning platforms and digital technologies to improve learning outcomes and professional performance, particularly considering the ongoing digital revolution in education. Additionally, it would be beneficial to conduct comparative analyses of educational programs and disciplines to comprehend the requirements and efficacious approaches that span diverse fields of study. Lastly, investigation into the cultural aspects of education and learning, as well as their influence on student achievement and professional performance, would yield a more comprehensive picture of the educational environment across various settings.

Conflicts of Interest Statement

The author certifies that he has NO affiliations with or involvement in any organization or entity with any financial interest (such as honoraria; educational grants; participation in speakers' bureaus; membership, employment, consultancies, stock ownership, or other equity interest; and expert testimony or patent-licensing arrangements), or non-financial interest (such as personal or professional relationships, affiliations, knowledge or beliefs) in the subject matter or materials discussed in this manuscript.

Acknowledgement

The researcher would like to thank Najran University, Saudi Arabia, for funding the publication of this project (NU/NRP/SEHRC/12/4).

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