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Article

The Role of Supervisors in Developing Postgraduate Literacies

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Abstract: This study aims to investigate the role of supervisors in developing postgraduate literacies, focusing on research capabilities, critical thinking, and academic writing. It seeks to identify effective supervisory practices and the challenges supervisors face in fostering these literacies. Additionally, the research intends to explore the impact of supervisory feedback on the overall academic proficiency of postgraduate students. The research design employs the literature review method, offering a structured examination of existing knowledge and research findings. This encompasses academic articles, books, conference papers, and case studies. Critical practices include providing tailored, constructive feedback, fostering a supportive and collaborative research environment, and encouraging active participation in scholarly communities. However, supervisors often face challenges such as managing diverse student needs, balancing guidance with promoting student independence and maintaining consistent communication. The study emphasizes the importance of targeted training and resources for supervisors to address the identified challenges and enhance their supervisory practices. Recommendations include developing professional development programmes for supervisors, the creation of clear guidelines for supervisory practices, and implementing regular feedback mechanisms between supervisors and students. Institutions should also promote a culture of mentorship and support to facilitate the development of postgraduate literacies.

Keywords: Academic writing; Critical Thinking; Mentorship; Postgraduate Education; Research Capabilities; Supervision; Supportive Environment

1. Introduction

Postgraduate education is a critical phase in academic and professional development, where students refine their research capabilities, critical thinking, and academic writing skills. The role of supervisors in this stage is pivotal, as they guide students through the complexities of advanced study and research [31]. Adequate supervision can significantly enhance the development of these postgraduate literacies, equipping students with the necessary skills to succeed in their academic and professional pursuits [23]. This paper aims to investigate the role of supervisors in fostering postgraduate literacies. The paper seeks to identify the most effective supervisory practices that contribute to enhancing research capabilities, critical thinking, and academic writing among postgraduate students [28]. Additionally, the paper will explore the challenges supervisors face and how these challenges can be addressed to improve the overall quality of supervision [42].

Furthermore, the research will discuss the impact of supervisory feedback on the academic proficiency of postgraduate students [26]. This paper aims to provide actionable recommendations for improving supervisory practices in higher education institutions by examining the various dimensions of supervision and its effects on student outcomes [47]. The goal is to enhance the

academic experience and outcomes for postgraduate students, thereby contributing to the advancement of postgraduate education and research excellence. Reviewing existing literature, this paper will offer a structured examination of current knowledge and research findings related to supervisory practices in postgraduate education [6]. The insights gained from this research will support the creation of support structures within higher education institutions, ensuring that supervisors are well-equipped to foster the development of postgraduate literacies effectively [12].

2. Literature Review

In higher education, the pathway to academic and professional success for postgraduate students is linked to the quality of supervision they receive [31]. As the cornerstone of postgraduate education, adequate supervision facilitates the achievement of academic milestones and fosters the development of comprehensive research, critical thinking, and academic writing skills [23]. This paper explores the pivotal role supervisors play in moulding the educational trajectory of postgraduate students, highlighting the importance of effective supervisory practices and the challenges encountered [42]. Additionally, it offers recommendations for enhancing supervisory approaches to better support postgraduate scholarship and promote research excellence [48].

Supervisors are instrumental in guiding postgraduate students through advanced study and research complexities [28]. Their influence extends significantly, impacting the development of postgraduate literacies crucial for scholarly and professional success [12]. These literacies include but are not limited to, advanced research capabilities, refined critical thinking skills, and the ability to articulate ideas clearly in academic writing [6]. Beyond their role in fostering academic growth, supervisors also play a crucial part in the professional development of postgraduate students [26]. They serve as mentors, offering insights into industry trends, networking opportunities, and guidance on career paths [47]. Supervisors can also be instrumental in helping students navigate the publication process, offering advice on suitable journals and strategies for effectively communicating research findings [23]. Furthermore, their support can be vital in assisting students to develop resilience and perseverance through the challenges of postgraduate study, thus preparing them for the demands of their future careers [42].

2.1. Tailored and Constructive Feedback

Effective supervisory practices are characterized by personalized, constructive feedback. This approach helps students recognize their strengths and areas needing improvement, paving the way for academic and personal growth [5]. A crucial aspect of this feedback loop is its specificity and relevance to the student's research project, ensuring that guidance is both actionable and empowering [7]. Supervisors need to foster an open and positive communication channel to enhance the feedback process, encouraging students to share their thoughts and concerns regarding their projects [24]. This nurtures a supportive environment that promotes mutual respect and understanding [22]. Additionally, incorporating regular check-ins and progress reviews can further tailor the feedback to the evolving needs of the student [49]. These practices, when combined, not only boost the student's motivation but also foster a sense of ownership and responsibility towards their research [1].

Moreover, adopting a forward-looking perspective in feedback sessions can be incredibly beneficial. Instead of solely focusing on past performance, constructive feedback should also outline practical steps for future improvements and learning opportunities [45]. This helps address current challenges and equips students with the skills and confidence needed to tackle future obstacles [35]. Lastly, celebrating achievements, no matter how small, is crucial in building self-esteem and motivation [16]. Acknowledgment of a student's progress and successes reinforces the positive impacts of their hard work and dedication, further motivating them towards their academic goals [41]. Incorporating these strategies into supervisory practices enriches the student-supervisor relationship, ultimately contributing to a more engaging and fruitful educational journey [51].

2.2. *Fostering Supportive Environments*

The creation of a supportive and collaborative research environment is paramount. Such an environment encourages students to actively engage in scholarly discussions, seek feedback iteratively, and collaborate with peers and experts. This enriches their learning experience and positively influences academic outcomes by promoting a sense of community and shared purpose [28]. To build on the initial concept, fostering supportive environments encompasses several key strategies beyond encouraging engagement and collaboration [18]. These environments also prioritize mental health and well-being, recognizing that a healthy mind is crucial for academic success [47].

Implementing regular check-ins and offering resources for stress management can help students navigate academic pressures more effectively [40]. Additionally, tailoring support to meet diverse learning needs ensures that all students have equal opportunities to succeed regardless of their background or learning style [15]. By establishing clear communication channels, students can feel more comfortable voicing their concerns and ideas, further enhancing the sense of community [44]. Integrating real-world applications and interdisciplinary approaches can also enrich the learning experience, making students' academic pursuits more relevant and engaging [21]. Ultimately, by continuously striving to create more inclusive, empathetic, and dynamic learning environments, educators can significantly contribute to the holistic development of their students, preparing them well for their future careers [15].

2.3. *Addressing Diverse Needs and Promoting Independence*

Supervisors face the challenge of catering to the diverse needs of postgraduate students from various educational backgrounds and possessing different levels of expertise [18]. Balancing the provision of guidance with the promotion of independence is also critical [32]. Supervisors must navigate the fine line between offering necessary support and encouraging students to forge their paths in research, fostering autonomy and self-directed learning [50]. Additionally, supervisors need to consider each postgraduate student's unique learning styles, personal circumstances, and career goals [44]. This may involve adapting communication methods, providing tailored resources, or facilitating networking opportunities that align with their interests and aspirations [1]. Recognizing and valuing each student's individual journey not only enhances their educational experience but also prepares them for future challenges and successes in their respective fields [13]. Effective mentorship thus requires a dynamic and empathetic approach, acknowledging that the path to becoming an independent researcher is as unique as the individuals embarking on it [41].

2.4. *Consistent Communication*

The effectiveness of supervision is also contingent on consistent and clear communication. Regular interactions between supervisors and students ensure timely guidance, clear expectations, and constructive feedback, facilitating a productive academic journey [32]. Adequate supervision transcends beyond consistent communication to include adaptive techniques that cater to each student's unique needs and learning styles [24]. By personalizing their approach, supervisors can enhance understanding and engagement, ensuring the academic journey is productive and transformative [7]. This entails the utilization of various educational tools, active listening, and encouraging critical thinking and problem-solving [50]. These strategies improve the quality of the learning experience and nurture a sense of independence and confidence among students [5]. Students are better equipped to tackle academic challenges and achieve their research goals through such dynamic and adaptive supervision [47].

The role of supervisors in the postgraduate educational framework is profound and multifaceted, directly influencing the quality of research and students' academic development [28]. By addressing existing challenges and implementing targeted strategies to improve supervisory practices, institutions can significantly enhance the quality of postgraduate education [18]. Such

efforts not only support students in achieving academic excellence but also advance research and scholarship in higher education [21]. Ultimately, by investing in the development of adequate supervision, institutions lay the groundwork for fostering future generations of scholars, innovators, and leaders [15].

3. Materials and Methods

This study utilizes a comprehensive literature review methodology to investigate the role of supervisors in developing postgraduate literacies. This approach offers a structured examination of existing knowledge and research findings related to supervisory practices in higher education [35]. The primary focus of the literature review includes academic articles, books, conference papers, and case studies that explore various aspects of supervisory roles and practices in postgraduate education [52]. By synthesizing information from diverse sources, this study aims to provide an understanding of effective supervisory strategies and their impact on students' academic development [33]. Data collection involves an extensive review and analysis of existing literature relevant to the study's objectives. This methodological choice allows for a thorough exploration of supervisory practices across different disciplines and institutional settings [4]. It facilitates the identification of key themes, trends, and challenges in supervisory roles, informing the study's findings and recommendations [9].

The literature review is structured to encompass critical topics such as the importance of tailored feedback in enhancing student learning outcomes, strategies for creating supportive and collaborative research environments, and the challenges supervisors face in managing diverse student needs [34]. By critically analyzing existing literature, the study aims to contribute new insights into effective supervisory practices that promote postgraduate literacies [25]. Moreover, the research design emphasizes the significance of synthesizing findings from various scholarly sources to ensure a comprehensive understanding of the topic [19]. This approach enables the exploration of diverse perspectives on supervisory roles and practices, enriching the study's analysis and recommendations for improving postgraduate education [20]. In conclusion, the literature review methodology adopted in this study serves as a robust framework for examining the role of supervisors in developing postgraduate literacies. By synthesizing existing knowledge and research findings, the study aims to advance understanding of effective supervisory practices and their implications for enhancing academic outcomes in postgraduate education [49].

4. Results

This study, through an extensive examination of relevant literature, has yielded several critical insights into supervisory practices within postgraduate education. It emphasizes the impact of adequate supervision on enhancing postgraduate literacies, encompassing research competencies, analytical thinking, and scholarly writing abilities [33]. Key to this process is the provision of customized and constructive feedback by supervisors [7]. Such feedback is instrumental in steering postgraduate students towards academic distinction. It assists students in honing their research techniques and writing proficiency and significantly elevates their confidence and drive for success [25].

Moreover, the necessity of cultivating nurturing and collaborative research is another significant finding of this study. Supervisors who establish an environment that stimulates students to engage in academic dialogue and solicit input from peers and experts are pivotal in enlivening the learning experience [4]. This model of collaboration not only fosters students' academic growth but also instills a sense of unity and belongingness within the scholarly community.

Additionally, the study reveals that adequate supervision is further exemplified by the supervisors' ability to adapt their mentoring style to suit each postgraduate student's unique needs and learning styles [19]. This bespoke approach ensures that every student receives the guidance and support they need to overcome challenges and thrive academically. The research also points to the benefits of interdisciplinary supervision teams, suggesting that exposure to diverse perspectives and

methodologies enriches the research experience [52]. This exposure prepares students for a world where cross-disciplinary collaboration is increasingly the norm, equipping them with the versatile skills required in academia and industry. Supervisors who are not only experts in their field but also skilled in personalized mentoring, fostering collaboration, and encouraging an interdisciplinary approach play a crucial role in nurturing the next generation of scholars [34].

5. Discussion

Through an extensive examination of the literature, this study has identified several pivotal findings concerning supervisory practices in postgraduate education and their significant impact on enhancing postgraduate literacies, such as research competencies, analytical thinking, and scholarly writing skills. Supervisors who provide personalized, constructive feedback are critical in propelling students toward academic prowess. This feedback is essential for refining research methodologies, improving writing capabilities, and boosting student confidence and motivation. Moreover, fostering a supportive and collaborative research environment is emphasized. Supervisors who cultivate an atmosphere that encourages students to engage in academic discourse and seek feedback from peers and experts greatly enrich the learning experience, enhancing academic development and community within academic departments. For academic institutions aiming to elevate the quality and effectiveness of their postgraduate programmes, these findings suggest several actionable strategies:

5.1. Training Programmes for Supervisors

To foster the development of supervisory skills tailored to the unique needs of postgraduate students, it is essential to implement specialized training programs [34]. These programs should prioritize effective communication, the art of providing constructive feedback, and strategies designed to cultivate a collaborative research atmosphere [7]. An integral part of this initiative involves establishing a formal mentorship programme, where experienced faculty members are paired with postgraduate students [4]. The goal here is to significantly enhance the students' academic and professional journey by providing insights into successful research practices, invaluable career advice, and expansive networking opportunities.

Additionally, it is crucial to promote a culture that values a healthy work-life balance [25]. This can be achieved by offering workshops and resources focused on time management, stress reduction, and self-care. By encouraging an academic environment that respects personal commitments outside of the academic domain, burnout can be prevented, and students' overall well-being can be supported.

Furthermore, ensuring students have comprehensive access to research materials, databases, and tools is vital for conducting cutting-edge research [52]. This means providing subscriptions to leading journals, access to state-of-the-art laboratory equipment and software, and financial support for attending conferences and fieldwork activities. Lastly, an environment that champions interdisciplinary research projects and teams should be cultivated [33]. This approach broadens the scope of research possibilities and enhances creativity, critical thinking, and problem-solving skills among postgraduate students. Exposure to diverse perspectives and methodologies is critical in enriching their research experience and academic growth.

5.2. Customized Supervision Approaches

In mentoring postgraduate students, supervisors need to embrace a more personalized approach. By understanding and adapting to each student's unique learning styles, challenges, and academic goals, a more targeted and effective support system can be provided [52]. Tailoring supervision strategies to students' individual needs can drastically enhance their academic experience. Creating a dynamic and adaptable mentoring environment where students' diverse

learning preferences, obstacles, and aspirations are recognized can make a significant difference in their academic journey [10].

Implementing varied strategies is critical; for instance, arranging regular one-on-one meetings to review progress, adjusting feedback techniques to match each student's receptiveness, and encouraging engagement with the broader academic community can be incredibly beneficial [20]. Moreover, leveraging technology and innovative tools, such as project management and collaboration platforms, can keep students engaged and on track with their milestones and deadlines [48].

Encouraging students to participate in workshops and seminars that align with their research interests and career goals broadens their horizons and fosters a sense of autonomy and confidence in their scholarly endeavours [30]. By cultivating a supervision model that respects and responds to individual differences, a nurturing and productive academic environment can be fostered. This personalized supervision approach doesn't just contribute to the academic and personal growth of postgraduate students; it also elevates the quality of research output, propelling the advancement of knowledge in their respective fields [4].

5.3. Fostering Interdisciplinary Collaborations

Enhancing the postgraduate journey requires institutions to break down traditional silos and encourage interdisciplinary collaboration [3]. Postgraduates can benefit from a more robust educational experience by creating platforms that encourage dialogue across departments. Exposure to varied perspectives and methodologies enriches the learning process, paving the way for innovative solutions and ideas [17]. To further augment this interdisciplinary engagement, universities must weave a comprehensive network of support that prioritizes their students' mental well-being and holistic development [26].

Beyond fostering academic collaboration, institutions must equally prioritize mental health and the overall well-being of their scholars. Access to mental health resources, career counselling, and academic support services play a pivotal role in nurturing a well-rounded postgraduate experience [45]. These resources serve as safety nets and springboards for personal and professional growth, enabling students to navigate the challenges of postgraduate studies with confidence and resilience. Building an academic culture that prizes open communication and constructive feedback is another cornerstone in developing a supportive and thriving academic community [18]. Such an environment encourages students to voice their ideas and concerns freely, fostering a sense of belonging and mutual respect among the academic fraternity.

Moreover, promoting opportunities for networking and mentorship can significantly enhance the postgraduate experience. These initiatives fuel professional growth and cement a sense of community and belonging among students and faculty alike [42]. Networking events, seminars, and mentorship programs can bridge gaps between theory and practice, offering students invaluable insights into their fields of study and future career paths. Implementing these strategies signifies a shift towards a more holistic and enriching postgraduate journey. By championing interdisciplinary collaboration, comprehensive support systems, open communication, and networking opportunities, institutions can transform the postgraduate landscape into an academically rewarding and personally fulfilling one. This integrated approach ensures that postgraduate education serves as a launchpad for both professional success and personal growth, preparing students to navigate the complexities of the modern world with agility and resilience.

5.4. Creating Supportive Research Communities

To foster thriving research communities, administrators must focus on creating and sustaining spaces where scholarly exchanges thrive [17]. This initiative should span the tangible world through physical and digital spaces via virtual platforms. Such environments facilitate engaging seminars, workshops, and forums—events that become the lifeblood of lively academic discourse and cooperation among students and faculty members [52]. These gatherings are not just meetings; they

are breeding grounds for new ideas and partnerships that push the boundaries of knowledge forward. Further emphasizing the need for support, directing attention toward those just beginning their academic journeys is crucial. Early-career researchers, standing at the threshold of their scholarly paths, require a robust support system to navigate the challenges ahead [42]. This support can materialize in several forms: mentorship programmes that provide guidance and advice [30], grants exclusively to emerging scholars to fund their groundbreaking research, and streamlined access to the latest research tools and datasets often out of reach due to financial constraints or institutional barriers.

By fostering a nurturing environment, institutions can ensure that these young scholars feel empowered to showcase their work boldly, soak in constructive criticism, and dive into the complexities of interdisciplinary research. Such an environment broadens their academic horizons and prepares them for modern research landscapes. Apart from enriching their experience, participation in these interdisciplinary projects also amplifies their exposure to new methodologies, perspectives, and problem-solving approaches, enhancing their research acumen.

Moreover, the synergy between academic institutions and industry partners opens a gateway to invaluable insights and practical applications of theoretical knowledge. These collaborations offer early-career researchers a glimpse into how their work can tangibly impact society and the economy. This exposure is not just beneficial—it is transformative, equipping these scholars with the hands-on experience and pragmatic understanding paramount for their holistic development [3]. Creating a supportive research community is a multi-layered endeavour encompassing providing the right platforms for interaction, ensuring ample growth opportunities, and fostering collaborations beyond academia. As institutions navigate these dynamics, they will contribute to the individual success of scholars and advance the collective progress of the research community at large.

5.5. Feedback Mechanisms for Supervision Quality

Establishing robust feedback mechanisms that allow postgraduate students to provide anonymous feedback on their supervision experience is crucial for identifying areas for improvement and recognizing exemplary supervisory practices [8]. To enhance the quality of postgraduate supervision, several complementary strategies should be adopted alongside these mechanisms to foster a culture of continuous improvement.

Regular feedback sessions should be encouraged, offering students a structured yet open environment to discuss their experiences and concerns about their supervision [52]. This approach should complement existing anonymous feedback mechanisms to provide more direct and immediate opportunities for enhancement. Additionally, developing comprehensive training programmes for supervisors, including modules on effectively giving and receiving feedback, can help supervisors respond constructively and adapt their practices [30]. An efficient follow-up system is essential to build trust in the feedback process and motivate students to engage with it. This system should inform students about actions taken in response to their feedback, demonstrating a clear link between student input and tangible improvements [8]. Furthermore, fostering a culture of peer review and feedback among supervisors can share best practices and offer new perspectives, thereby enhancing supervision quality across the institution [42].

Linking feedback mechanisms and responses with broader educational goals ensures that improvements in supervision quality align with objectives of academic excellence and student satisfaction [3]. Strict confidentiality in the feedback process is imperative to protect students from potential repercussions, with support services available for those requiring assistance or counseling due to their supervision experiences [26].

By adopting a comprehensive approach that includes these strategies, institutions can create a more effective, supportive, and improvement-oriented supervision culture. This holistic view addresses areas needing enhancement while acknowledging and building upon successful supervisory practices, ultimately enriching the entire postgraduate experience for both students and their supervisors. Implementing these strategies can significantly enhance the effectiveness of

postgraduate supervision, improving student outcomes, research quality, and overall departmental reputation. Academic leaders must adopt a proactive approach to supervising and mentoring the next generation of scholars, ensuring they are well-equipped for academic and professional excellence.

6. Enhanced Supervisory Practices: Recommendations

Adequate supervision is integral to the success and development of postgraduate students, encompassing essential skills such as research proficiency, critical thinking, and academic writing. As institutions strive to optimize the supervisory process, enhancing the practices and capabilities of supervisors becomes paramount. This section explores key recommendations to strengthen supervisory practices to support postgraduate students better.

6.1. Professional Development for Supervisors

Institutions should prioritize professional development programmes for supervisors to equip them with advanced supervisory skills and strategies that effectively support postgraduate students [30]. Integrating dedicated training modules focusing on interpersonal communication, conflict resolution, mentorship, and leadership can enhance the competency and confidence of supervisors [3]. This comprehensive approach not only fosters a supportive academic environment but also significantly contributes to the success and well-being of postgraduate students.

Additionally, exposing supervisors to diverse teaching methods and assessment techniques can further refine their supervisory practices, ensuring they are well-equipped to meet the varying needs of their students [52]. Emphasizing the importance of continuous learning and adaptation, these programmes should encourage supervisors to stay abreast of the latest developments in their field, thereby enriching the postgraduate learning experience [8].

6.2. Establish Clear Guidelines

Clear, institution-wide guidelines for supervisory practices could ensure consistency and quality in student guidance across all departments and disciplines [8]. Ongoing professional development for supervisors can enhance their skills in mentoring, feedback, and support strategies, ensuring they remain equipped to provide high-quality guidance tailored to the evolving needs of students [30]. By promoting a culture of collaboration, institutions can facilitate sharing best practices and innovative supervisory techniques across different departments, leading to a more cohesive approach to student supervision and support [3].

Establishing robust mechanisms for feedback from students regarding their supervision experience enables continuous improvement [8]. Such feedback can be invaluable in identifying gaps, addressing concerns, and tailoring supervisory practices to meet student needs better. The effective use of technology and other resources, such as digital platforms for tracking progress and scheduling meetings, can make supervision more efficient and accessible for supervisors and students [52]. Recognizing the challenges students may face, it's crucial to integrate well-being and support into the supervisory framework. Access to mental health resources, career advice, and academic support services can ensure a more holistic approach to student guidance [26].

By expanding on these foundational guidelines, institutions can create a more supportive, effective, and enriching environment for students and their supervisors.

6.3. Implement Regular Feedback Mechanisms

Regular feedback mechanisms between students and supervisors can significantly enhance the educational experience and outcomes [8,52]. These mechanisms create a platform where students can share their experiences, challenges, and suggestions regarding their supervision [3]. In turn, supervisors gain valuable insights into their students' needs, expectations, and perceptions, allowing them to adjust their methods and approaches for better support [30]. This ongoing process of

communication and adjustment facilitates a more personalized and effective learning journey for students, fostering a constructive and collaborative educational environment [8].

Additionally, regular feedback helps identify areas for improvement in the curriculum, teaching methods, and supervisory practices, contributing to the overall quality of education and research [26]. By addressing these areas, institutions can continuously enhance their educational offerings and ensure they meet the evolving needs of students [52].

6.4. Promote a Mentorship Culture

Encouraging experienced supervisors to mentor newer colleagues could share valuable insights and best practices, enhancing the supervisory capacity within the institution [11,31]. Promoting a culture of mentorship within an organization not only facilitates the sharing of valuable insights and best practices among employees but also fosters a supportive environment that enhances the overall supervisory capacity within the institution [38]. When experienced supervisors actively mentor newer colleagues, they help bridge the knowledge gap, ensuring that the novices are well-equipped to handle their responsibilities effectively [14]. This practice can lead to numerous benefits, including improved performance, higher job satisfaction, and increased employee retention rates [2]. It also encourages a sense of belonging and loyalty among staff, who feel valued and supported in their professional growth and development [37]. Furthermore, mentorship programs can aid in identifying and nurturing potential future leaders, thereby contributing to the organization's sustainable success [37].

5. Conclusions

This paper has explored the pivotal role of supervisors in developing postgraduate literacies, mainly focusing on research capabilities, critical thinking, and academic writing. Through an extensive literature review, the study has identified effective supervisory practices and the challenges supervisors face in fostering these essential skills. The findings indicate that adequate supervision, characterized by tailored and constructive feedback, significantly enhances postgraduate literacies. Supervisors who create a supportive and collaborative research environment contribute to richer learning experiences and better student academic outcomes. However, supervisors encounter several challenges, including managing diverse student needs, balancing guidance with promoting independence, and maintaining consistent communication. The impact of supervisory feedback on postgraduate students' academic proficiency is profound. Comprehensive and personalized feedback improves students' technical skills and research capabilities and boosts their confidence and motivation to excel in their academic pursuits.

To address these challenges and enhance supervisory practices, the study recommends implementing professional development programs for supervisors, establishing clear guidelines for supervisory practices, and promoting a culture of mentorship within institutions. These initiatives can equip supervisors with advanced skills and strategies to support postgraduate students effectively, fostering an environment that prioritizes continuous learning and adaptation.

Overall, this research contributes to a deeper understanding of supervisors' critical role in postgraduate education. By highlighting effective practices and common challenges, the study provides actionable recommendations for improving supervisory practices, ultimately enhancing postgraduate students' academic experience and outcomes. The insights gained from this research can inform policy development and the creation of support structures within higher education institutions, contributing to the advancement of postgraduate education and research excellence.

Conflicts of Interest: The authors declare no conflicts of interest.

References

1. Ajjawi, R. and Boud, D. (2018) 'Examining the nature and effects of feedback dialogue', *Assessment & Evaluation in Higher Education*, 43(7), pp. 1106-1119.
2. Allen, T. D., Eby, L. T., Poteet, M. L., Lentz, E., & Lima, L. (2004) 'Career benefits associated with mentoring for proteges: A meta-analysis', *Journal of Applied Psychology*, 89(1), pp. 127-136.
3. Biglan, A. (2015) 'Theoretical and experimental approaches to social issues', *American Psychologist*, 70(3), pp. 264-274.
4. Boud, D. & Lee, A. (2020) 'Changing practices of doctoral education', *Studies in Higher Education*, 45(2), pp. 128-141.
5. Boud, D. and Molloy, E. (2019) 'What is the problem with feedback?', in Boud, D. and Molloy, E. (eds) *Feedback in Higher and Professional Education: Understanding it and doing it well*. London: Routledge, pp. 1-14.
6. Brown, A. (2019) 'Current trends in postgraduate supervision: Challenges and opportunities', *Journal of Higher Education*, 34(2), pp. 345-367.
7. Carless, D. (2020) 'From teacher transmission of information to student feedback literacy: Activating the learner role in feedback processes', *Active Learning in Higher Education*, 21(2), pp. 125-136.
8. Carless, D. & Boud, D. (2018) 'The development of student feedback literacy: Enabling uptake of feedback', *Assessment & Evaluation in Higher Education*, 43(8), pp. 1315-1325.
9. Carter, S. & Kumar, V. (2021) 'Developing a collaborative supervisory practice for postgraduate research', *Innovations in Education and Teaching International*, 58(3), pp. 243-254.
10. Clegg, S. (2016) 'Managing yourself and your doctorate: A guide for PhD students', *Journal of Higher Education Policy and Management*, 38(1), pp. 98-110.
11. Clutterbuck, D. (2019) *Everyone needs a mentor: Fostering talent in your organization*, 6th edn. London: Kogan Page.
12. Davis, R. and White, S. (2021) 'Effective supervisory practices for postgraduate students: A review', *Educational Research Review*, 16(1), pp. 123-140.
13. Duffy, R. D., Allan, B. A., Autin, K. L., & Bott, E. M. (2020) 'Exploring the work as calling theory: A model of work meaning and work-related outcomes', *Journal of Counseling Psychology*, 61(4), pp. 602-615.
14. Eby, L. T., Allen, T. D., Evans, S. C., Ng, T., & DuBois, D. (2013) 'Does mentoring matter? A multidisciplinary meta-analysis comparing mentored and non-mentored individuals', *Journal of Vocational Behavior*, 83(3), pp. 257-267.
15. Evans, C., Muijs, D., & Tomlinson, D. (2021) 'Engaging students with feedback through personalized learning activities', *Teaching in Higher Education*, 26(7), pp. 873-888.
16. Feedforward (2018) 'Feedforward practices in higher education: Perspectives and challenges', *Journal of Educational Feedback*, 12(3), pp. 156-172.
17. Gibbons, M. et al. (2015) *The New Production of Knowledge: The Dynamics of Science and Research in Contemporary Societies*. London: Sage Publications.
18. Giles, D. L., Plant, H. & Knibbs, B. (2020) 'The role of collegiality in creating a collaborative research culture in higher education', *Higher Education Research & Development*, 39(6), pp. 1109-1122.
19. Grant, B. & Graham, A. (2020) 'Postgraduate supervision: A developmental approach', *Journal of Further and Higher Education*, 44(6), pp. 739-752.

20. Gurr, G. M. (2019) 'Negotiating the doctoral journey: A handbook for supervisors and their students', *Supervision in Higher Education*, 22(1), pp. 56-73.
21. Hannon, J., Huxham, M. & McIntyre, S. (2018) 'Integrating real-world applications in higher education: An interdisciplinary approach', *Innovations in Education and Teaching International*, 55(3), pp. 319-329.
22. Hattie, J. and Timperley, H. (2018) 'The power of feedback', *Review of Educational Research*, 77(1), pp. 81-112.
23. Hill, J., West, H. and Stokes, P. (2020) 'Postgraduate research supervision: A process of engagement and development', *Higher Education Review*, 52(1), pp. 88-104.
24. Hockey, J. (2019) 'Effective supervision of postgraduate research students', *Journal of Graduate Education*, 12(3), pp. 221-235.
25. Hunt, J. & Eisenberg, D. (2010) 'Mental health problems and help-seeking behavior among college students', *Journal of Adolescent Health*, 46(1), pp. 3-10.
26. Johnson, P. (2022) 'The impact of feedback on postgraduate student outcomes: A critical analysis', *Studies in Higher Education*, 47(3), pp. 321-335.
27. Johnson, R., Keating, E., & Showunmi, V. (2019) 'Creating supportive research environments in higher education: Encouraging engagement and collaboration', *Journal of Educational Research*, 112(4), pp. 437-448.
28. Jones, K. (2019) 'Supervisory practices and their impact on postgraduate research outcomes', *Postgraduate Education Journal*, 42(4), pp. 452-469.
29. Kiley, M. & Wisker, G. (2018) 'Threshold concepts and transformational learning', *International Journal for Academic Development*, 23(2), pp. 135-147.
30. Kram, K. E. (1985) 'Mentoring at work: Developmental relationships in organizational life', Glenview, IL: Scott, Foresman and Company.
31. Lee, A. (2018) 'Developing effective postgraduate supervision: Practices and strategies', *International Journal of Academic Development*, 23(1), pp. 45-61.
32. Lee, A. & Murray, R. (2019) 'Supervising writing: Helping postgraduate students develop as researchers', *Innovations in Education and Teaching International*, 56(1), pp. 101-110.
33. Manathunga, C. (2018) 'The role of feedback in the supervisory relationship', *Higher Education Research & Development*, 37(4), pp. 747-760.
34. Murray, R. (2020) 'How to write a thesis', 4th edn. Maidenhead: Open University Press.
35. Nash, R. A. and Winstone, N. E. (2017) 'Responsibility-sharing in the giving and receiving of assessment feedback', *Frontiers in Psychology*, 8, p. 1519.
36. Ragins, B. R., & Cotton, J. L. (1999) 'Easier said than done: Gender differences in perceived barriers to gaining a mentor', *Academy of Management Journal*, 42(4), pp. 368-382.
37. Ragins, B. R., & Kram, K. E. (2007) *The handbook of mentoring at work: Theory, research, and practice*. Thousand Oaks, CA: Sage Publications.
38. Ragins, B. R., & Scandura, T. A. (1999) 'Burden or blessing? Expected costs and benefits of being a mentor', *Journal of Organizational Behavior*, 20(4), pp. 493-509.
39. Robinson, O. & Subramaniam, S. (2019) 'Addressing mental health and well-being in higher education: Strategies for supporting students', *Educational Psychology*, 39(5), pp. 611-624.
40. Sambell, K., McDowell, L. and Montgomery, C. (2017) *Assessment for learning in higher education*. London: Routledge.

41. Sambunjak, D. et al. (2010) 'Mentoring in academic medicine: A systematic review', *Journal of the American Medical Association*, 304(11), pp. 1243-1250.
42. Smith, L. and Adams, R. (2021) 'Challenges in postgraduate supervision: Insights and solutions', *Educational Researcher*, 50(2), pp. 101-115.
43. Smith, L. & Carver, M. (2019) 'Building a sense of community in online learning environments', *Online Learning Journal*, 23(2), pp. 65-79.
44. Stallman, H. M. (2010) 'Psychological distress in university students: A comparison with general population data', *Australian Psychologist*, 45(4), pp. 249-257.
45. Sutton, P. (2019) 'A paradoxical academic practice: Academic developers giving feedback', *International Journal for Academic Development*, 24(3), pp. 235-246.
46. Turner, L., Holt, R., & Arthur, N. (2020) 'Mental health support in higher education: Best practices and emerging trends', *Journal of College Student Psychotherapy*, 34(2), pp. 123-136.
47. Walker, G. and Thomson, P. (2020) 'Enhancing postgraduate research supervision: A systematic review', *Higher Education Quarterly*, 74(2), pp. 162-181.
48. Walker, M. & Thomson, P. (2020) 'The Routledge doctoral supervisor's companion: Supporting effective research in education and the social sciences', 2nd edn. London: Routledge.
49. Winstone, N. & Carless, D. (2019) 'Designing effective feedback processes in higher education: A learning-focused approach', *Learning and Instruction*, 60, pp. 24-34.
50. Winstone, N. E., Nash, R. A., Rowntree, J. and Parker, M. (2020) 'Supporting learners' agentic engagement with feedback: A systematic review and a taxonomy of recipience processes', *Educational Psychologist*, 52(1), pp. 17-37.
51. Wisker, G. (2018) 'The good supervisor: Supervising postgraduate and undergraduate research for doctoral theses and dissertations', 3rd ed. London: Palgrave Macmillan.

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