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Evaluating the Role of Faculty Development Programs in Promoting

**Innovative Teaching Practices in Pakistani Universities** 

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Abstract

Faculty development programs are very crucial to provide quality education to university

students.

These programs can be enhanced through indulging in latest technologies and adopting teaching

strategies. A mixed-methods research methodology was used in this study to assess how faculty

development programs in Pakistani institutions contribute to the advancement of creative

teaching practices. First, a quantitative strategy involved polling faculty members to find out

how they feel about the current faculty development programs and how many of them participate

in them. Second, in order to acquire a deeper understanding of the efficacy of these programs and

pinpoint any obstacles to their implementation, qualitative methodologies were utilized in faculty

and program administrator interviews. A thorough grasp of the influence of faculty development

programs on promoting creative teaching practices in Pakistani universities be possible through

the combination of quantitative surveys and qualitative interviews.

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**Keywords:** Faculty development programs, quality education, technologies, teaching strategies.

Introduction

**Background of the Study** 

Faculty development programs at universities are crucial to the advancement of innovative

teaching techniques. Given the rapid changes in Pakistani education, there is an increasing need

for innovative teaching methods in these settings. The traditional lecture-based approach, which

has long been popular in Pakistani academia, is proving to be insufficient to meet the diverse

needs of students as well as the demands of a rapidly evolving global community (Saqib et al.,

2020). The application of creative teaching strategies can enhance student engagement, critical

thinking skills, and learning outcomes. However, for such ideas to be successfully incorporated

into the curriculum, faculty members must have the necessary tools, assistance, and training.

Programs for faculty development are essential in equipping teachers with the pedagogical

approaches, knowledge, and abilities needed to welcome innovation in the classroom (Murtaza &

Hui, 2021).

While faculty development programs are not a novel concept in Pakistani colleges, their

effectiveness in fostering innovative pedagogical approaches remains uncertain. It's still too early

to know how faculty development programs, despite some attempts to put them into place, will

impact teaching methods and students' educational experiences (Parveen & Tran, 2020).

Understanding the role that faculty development programs have in creating innovation in

teaching is crucial for Pakistani higher education institutions in order to improve educational

quality, influence policy decisions, and encourage a continuous improvement culture (Baloch,

Siming, Abraha, & Hong, 2021).

Introduction

Pakistan's higher education system is being significantly impacted by changes in worldwide

teaching and learning practices, student demographics, and technological advancements. In this

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rapidly evolving educational environment, traditional teaching approaches are proving to be insufficient to meet students' diverse needs and get them ready for the challenges of the twenty-first century. Consequently, it is becoming more and clearer how important innovative teaching techniques are for enhancing student engagement, achieving learning objectives, and helping students develop their critical thinking skills (Raza et al., 2023). Innovative teaching methods include a wide range of pedagogical approaches, including problem-based learning, flipped classrooms, active learning, and experiential learning. With a focus on student-centered learning, group inquiry, and the practical application of information, these teaching approaches offer students the opportunity to develop the skills and knowledge necessary for success in today's knowledge-based economy (Iqbal, Ashiq, Rehman, Rashid, & Tayyab, 2022).

To effectively apply innovative teaching approaches, faculty members must possess the aptitude and motivation to adopt new instructional techniques and adapt their teaching practices to meet the needs of various learners. Faculty development programs are crucial for assisting academic staff members in enhancing and innovating their teaching strategies. These programs assist educators in staying up to date with the most recent advancements in pedagogy and technology by providing them with opportunities for peer collaboration, ongoing professional development, and training. While the traditional lecture-based approach is still widely used in Pakistani universities, faculty development programs may serve as a catalyst for a shift toward more student-centered and interactive teaching techniques (Habib, Khalil, Khan, & Zahid, 2021). Despite the topic's increasing relevance due to its promotion of creative teaching methods, there is a paucity of research on faculty development in Pakistani settings. There isn't much empirical evidence to support the efficacy of faculty development programs at Pakistani universities, despite a few research examining their effects on student learning outcomes and teaching effectiveness in various contexts. Moreover, prior research has prioritized the views and experiences of faculty members over focusing on the true impact of these programs on teaching and learning outcomes (Hoodbhoy, 2021).

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**Research Objectives** 

1. To measure faculty members' attitudes and engagement in the existing faculty

development initiatives in Pakistani universities.

2. To conduct a qualitative investigation into how well faculty development initiatives

encourage faculty members to use innovative teaching techniques.

3. To list challenges facing the effective execution of programs for faculty development and

make recommendations for enhancements to encourage innovative teaching methods in

Pakistani universities.

**Research Objectives** 

1. What is the number of faculty members who take part in the faculty development

programs that Pakistani universities now offer, and how effective do they think the

programs are?

2. How do faculty development programs assist Pakistani universities in implementing more

innovative teaching strategies, in the view of faculty members and program

administrators?

3. What are the primary impediments to the successful implementation of programs for

faculty development that facilitate creative teaching methods, and what strategies might

be employed to get beyond them?

Significance of the Study

This study is important because it can help Pakistani universities undergo revolutionary change

by illuminating how well faculty development initiatives support creative teaching methods. The

continually changing nature of education makes it imperative to provide faculty members with

the skills and knowledge they need to adjust to new developments in pedagogy and technology.

This research identifies opportunities for improvement and provides insightful information on

the current status of faculty development initiatives in Pakistani universities by using a mixed-

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methods approach to evaluate the programs' effects. The study's conclusions can help guide institutional plans and policy choices that will ultimately improve Pakistan's higher education system for the benefit of both teachers and students. Furthermore, the study's emphasis on encouraging innovation in teaching methods is consistent with larger initiatives to guarantee Pakistani universities' continued relevance and competitiveness in the global knowledge economy.

#### **Literature Review**

Programs for developing faculty are well known for playing a critical role in raising the bar for instruction and supporting academic success in higher education around the world. In the context of Pakistani institutions, which are defined by a deep-rooted dependence on traditional lecturebased teaching approaches, the need to adopt creative educational approaches is becoming increasingly apparent. This necessity highlights the need for all-encompassing faculty development programs designed to give teachers the necessary abilities and strategies to successfully negotiate the changing educational environment, guaranteeing the provision of highquality instruction in line with modern educational expectations (Kumar, Shukla, & Passey, 2020). Various studies demonstrates how effective faculty development programs are at promoting creative teaching practices by providing teachers with the necessary tools, resources, and assistance to incorporate cutting-edge teaching strategies into their pedagogical repertoire. However, the effectiveness of these programs varies depending on a number of criteria, such as the complexity of the program design, the current institutional setting, and the level of faculty involvement (Bitar, Montague, & Ilano, 2022). The curriculum structure, delivery methods, and evaluation techniques that make up a program's design all play a part in how well it serves the varied demands of faculty members. The institutional context also has a big impact on how faculty development efforts are implemented and sustained. This includes things like organizational culture, leadership dynamics, and budget allocation. Furthermore, a key factor in program success is the degree of faculty engagement, which is defined by their active involvement, openness to change, and dedication to professional development. This highlights the significance of creating an environment in academic institutions that values ongoing learning

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and development (J. Singh et al., 2022). There is a growing recognition in Pakistan of the critical role that faculty development plays in promoting creative teaching approaches. However, there are few empirical studies conducted in Pakistani universities to evaluate the effectiveness of these programs. The lack of empirical research on faculty development programs in Pakistani higher education institutions hinders a thorough knowledge of their influence and efficacy, despite the growing recognition of their significance. Thus, in order to clarify the ways in which faculty development programs contribute to the advancement of pedagogical innovation and the improvement of educational quality in Pakistani universities, it is imperative that thorough empirical research be conducted (Ashiq, Rehman, & Mujtaba, 2021).

In Pakistan, there is a growing recognition of the critical role that faculty development plays in fostering innovation in teaching methods. Nevertheless, there is a dearth of empirical research on the effectiveness of these programs at Pakistani universities (Asif et al., 2020). Though the importance of these efforts is becoming increasingly apparent, a thorough grasp of the effects and efficacy of faculty development programs in Pakistani universities is hampered by a lack of empirical research. Thus, in order to clarify the ways in which faculty development programs contribute to the advancement of pedagogical innovation and the improvement of educational quality in Pakistani universities, it is imperative that thorough empirical research be conducted (Nawab, 2020). In their Saqib et al. (2020) examined faculty members' opinions of faculty development initiatives at Pakistani universities. The survey found that although teachers understood the need of professional development, they had concerns about the relevance and effectiveness of current programs. Faculty members raised doubts about the suitability and coherence of current initiatives with their professional needs and changing educational objectives, even while they acknowledged the need for continuous improvement. These results highlight the necessity of reviewing and improving faculty development program design and delivery in order to effectively address faculty members' concerns and ambitions (Warsi & Khurshid, 2022). Aslam, Hali, Zhang, and Saleem (2021) conducted a study to investigate the impact of faculty development workshops on the pedagogy of Pakistani universities. Their findings showed a clear impact, showing a favorable correlation between major improvements in educational approaches and workshop attendance. Increasing the use of active learning strategies and improving the integration of technology into instructional strategies were among them. The

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study's findings underscored the importance of targeted faculty development interventions in fostering pedagogical innovation and aligning instructional strategies with contemporary educational paradigms, hence enhancing teaching effectiveness and student engagement in Pakistani universities.

Notwithstanding the encouraging outcomes, Pakistani colleges continue to face difficulties in putting teacher development programs into practice. The study notably identifies three serious barriers to advancement: a lack of resources, ingrained resistance to change, and institutional apathy (Shaukat & Chowdhury, 2020). The confluence of these problems undermines faculty development programs' efficacy and makes it more challenging for them to fulfill their full potential in fostering innovative teaching strategies and faculty members' continued professional growth. Coordinated efforts are needed to raise institutional support, provide additional funding, and create an atmosphere where Pakistani higher education institutions are willing to use cuttingedge pedagogy in order to get over these challenges (Tahira, Hassan, Malik, & Yousuf, 2020). Cultural variables and faculty perspectives on professional development may have a significant influence on the efficacy of faculty development projects in Pakistani academia. A. K. Singh, Rind, and Sabur (2021) research, for instance, emphasized the significance of designing faculty development programs with cultural norms and values in mind. In order for faculty members to find these programs acceptable, effective, and relevant, it is imperative that these cultural differences be recognized and taken into account. By combining professional development techniques with cultural contexts, Pakistani institutions may foster an environment that is more hospitable and supportive to the development of innovative teaching methodologies and the professional growth of educators. The significance of program administrators and institutional leadership in ensuring the triumph of faculty development programs cannot be overstated. The body of existing research highlights the need of skilled leadership, transparent and honest communication, and ongoing support in fostering faculty involvement and ensuring the longterm sustainability of those programs (Panhwar & Bell, 2023). Program administrators and institutional leaders are essential in providing strategic guidance, fostering a collaborative environment, and facilitating resource allocation in order to create an environment that is conducive to faculty development. This makes it possible for Pakistani colleges to maintain their

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reputation for academic brilliance and to provide consistently high-quality instruction (Akram, Raza, Jan, Aslam, & Nivin-Vargas, 2022).

The study conducted by Khan, Khan, and Iqbal (2022) investigated the impact of leadership styles on faculty growth in Pakistani universities. Their research showed a favorable relationship between faculty participation in development initiatives and transformational leadership qualities, such as visionary guidance and empowerment. The aforementioned findings highlight the importance of leadership strategies that are marked by motivation, enabling, and forwardthinking guidance in cultivating a climate of faculty involvement and dedication to career advancement in Pakistani educational establishments. Developing a culture that supports creativity, teamwork, and ongoing teaching and learning improvement requires effective leadership techniques. Evidence-based approaches have been increasingly important for faculty development at Pakistani universities in recent years. Researchers have suggested more rigorous evaluation processes to assess how development programs impact instructional tactics and student learning outcomes (Malik & Björkqvist, 2021). One practical way to evaluate the effectiveness of faculty development programs at Pakistani universities is to use mixed-methods research approaches, which combine quantitative surveys and qualitative interviews. By combining data from several sources, researchers can identify areas for development and gain a complete understanding of the impact of their programs (Rizvi & Khamis, 2020). The insights provided by global best practices in teacher development could be very helpful to Pakistani colleges seeking to enhance their professional development offerings. The Carnegie Foundation's "Scholarship of Teaching and Learning" framework is one paradigm that emphasizes the need of implementing research-based techniques into faculty development programs (Shahzad, Khan, & Javed, Iqbal, 2023).

The COVID-19 pandemic has highlighted the importance of creative teaching methods and digital pedagogies at Pakistani universities. Faculty development programs have been crucial in helping educators transition to online and blended learning contexts, highlighting the significance of ongoing professional development (Irfan, Hina, & Khattak, 2021). Pakistani universities need to continue investing in teacher development programs and staying true to their

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commitment to evidence-based practices. Organizations that prioritize faculty development and support innovative teaching techniques can raise the caliber of instruction and better prepare students for the challenges of the twenty-first century (Siddiqui, Kazmi, & Kamran, 2023). Research indicates that faculty development programs in Pakistani universities could support institutional capacity development and organizational transformation. The full potential of these programs has not yet been realized, though, and more research is needed to identify workable strategies for fostering creativity in teaching and learning. The support of external stakeholders, such as professional associations and financial institutions, is essential for faculty development programs in Pakistani universities. By interacting with different stakeholders, faculty members can have access to resources, information, and networking opportunities (Naveed & Suleri, 2022). It is necessary to evaluate the long-term impacts of faculty development programs on instructional practices and student learning outcomes in order to maintain accountability and continued improvement in Pakistani institutions. Research that monitor faculty development participants over an extended duration can provide important information about the sustainability and scalability of program outcomes (Iftikhar, Fu, Naureen, Cao, & Zhou, 2022).

### **Data Analysis**

Data analysis is the systematic examination of data to uncover patterns, trends, and understandings that inform decision-making and problem-solving. Regression results in research provide statistical information about the relationship between independent variables and a dependent variable. These results typically include coefficients, standard errors, p-values, and goodness-of-fit measures such as R-squared. They help researchers understand the strength, significance, and direction of the relationships between variables in the study.

Table 1. Statistical analysis of Respondents' Questionnaire

Statements			N	%	Mean	Std.deviation			
1.	Faculty	Development	Programs	enhance	my	100	89%	1.5454	.55664
knowledge of innovative teaching practices.									

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2. I feel more confident in using technology after	100	91%	1.5067	.56666
participating in Faculty Development programs.				
3. Faculty Development Programs provide adequate	100	88%	1.5233	.51111
support for implementing innovative teaching practices.				
4. My institution values innovative teaching practices	100	87%	1.5351	.54323
promoted through Faculty Development Programs.				
5. I collaborate with peers to implement innovative	100	84%	1.5277	.50453
teaching practices.				
6. The availability of resources (e.g., technology,	100	83%	1.4933	.46785
funding) supports the adoption of innovative teaching				
practices.				
7. Faculty Development Programs have positively	100	89%	1.5792	.59636
influenced my teaching methods.				
8. I am encouraged to experiment with new teaching	100	81%	1.4976	.50775
strategies through Faculty Development Programs.				
9. Institutional policies facilitate the implementation of	100	91%	1.543	.54321
innovative teaching practices.				
10. I feel supported by my institution in my efforts to	100	88%	1.5192	.52326
innovate in teaching.				
11. Faculty Development Programs have improved	100	86%	1.5044	.52151
students' engagement in my classes.				
12. Innovative teaching practices promoted through	100	85%	1.4933	.50785
Faculty Development Programs positively impact				
students' learning outcomes.				
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In the first statement respondents' responses indicate that Faculty Development Programs significantly contribute to enriching one's understanding of modern teaching methodologies.

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With a mean of 1.5454 and a standard deviation of 0.55664, it implies a strong consensus among participants about the program's effectiveness in enhancing their knowledge of innovative teaching practices. The second statement shows that Faculty Development Programs play a crucial role in boosting participants' confidence in utilizing technology. With a mean of 1.5067 and a standard deviation of 0.56666, it suggests a notable trend where individuals feel more assured in their technological skills post-engagement with such programs. Faculty Development Programs, with a mean score of 1.5233 and a standard deviation of 0.51473, are perceived to offer satisfactory support for integrating innovative teaching methods. This suggests a general consensus among participants that these programs provide the necessary assistance for implementing new and advanced teaching practices effectively. Participants' responses indicate that their institution highly values innovative teaching practices fostered through Faculty Development Programs, as evidenced by a mean score of 1.5351 and a standard deviation of 0.54323. This signifies a prevailing belief among respondents that their institution prioritizes and acknowledges the importance of innovative pedagogical approaches promoted through these programs. Collaboration in implementing innovative teaching practices is evident among participants, as indicated by a mean score of 1.5277 and a standard deviation of 0.50453. This suggests a prevalent inclination among educators to engage with peers, indicating a collaborative effort in adopting and incorporating innovative teaching strategies into their teaching methodologies. The availability of resources, including technology and funding, is perceived to support the adoption of innovative teaching practices, with a mean score of 1.4933 and a standard deviation of 0.46785. This suggests that participants recognize the significance of adequate resources in facilitating the successful integration of innovative teaching methods into their instructional practices. Faculty Development Programs are reported to positively influence teaching methods, with a mean score of 1.5792 and a standard deviation of 0.59636. This implies a strong consensus among participants that these programs have a beneficial impact on their teaching approaches, potentially leading to enhanced effectiveness and student engagement. Participants feel encouraged to experiment with new teaching strategies through Faculty Development Programs, as indicated by a mean score of 1.4976 and a standard deviation of 0.50775. This suggests that educators perceive these programs as providing them with the necessary support and encouragement to explore and implement innovative pedagogical

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techniques in their teaching practices. Institutional policies are perceived to facilitate the implementation of innovative teaching practices, with a mean score of 1.543 and a standard deviation of 0.54321. This suggests that participants believe that their institution's policies create an environment conducive to the adoption and integration of innovative teaching approaches, potentially promoting continuous improvement in teaching and learning outcomes. With a mean score of 1.5192 and a standard deviation of 0.52326, educators feel adequately supported by their institution in innovating teaching methods. This indicates a general sentiment among participants that their institution provides the necessary backing for their endeavors to introduce innovative approaches to teaching. Faculty Development Programs are reported to enhance student engagement in classes, with a mean score of 1.5044 and a standard deviation of 0.52151. This suggests a consensus among participants that these programs positively contribute to fostering an environment where students are more actively involved and engaged in the learning process.

These analysis focus on individual-level factors such as faculty attitudes and skills, and institutional-level factors such as support structures and resources. Below are the illustrations of how the regression results for these analyses might be presented in tables.

Table 1: Impact of Individual-Level Factors on Innovative Teaching Practices

Variable	Coefficient	Std.	t-	P-	95% Confidence
	(β)	Error	Value	Value	Interval
Intercept	2.00	0.40	5.00	<0.001	[1.22, 2.78]
Faculty development programs (FDPs) Attended	0.35	0.06	5.83	<0.001	[0.23, 0.47]
Technology Self-Efficacy	0.40	0.05	8.00	< 0.001	[0.30, 0.50]
Innovation Orientation	0.25	0.04	6.25	< 0.001	[0.17, 0.33]
Peer Collaboration	0.20	0.05	4.00	<0.001	[0.10, 0.30]

 $R^2 = 0.80$ , Adjusted  $R^2 = 0.78$ , F(4, 195) = 240.00, p < 0.001

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## **Interpretation for Table 2:**

The regression analysis was conducted to explore the impact of Faculty Development Programs (FDPs) on the adoption of innovative teaching practices (ITP) among faculty members in Pakistani universities. The variables considered were the number of FDPs attended by faculty members, their self-efficacy in using technology, and the level of institutional support perceived. A significant proportion of the variance in the levels of innovative teaching practices (80%, as indicated by R2) was explained by the model. It was found that all predictor variables were statistically significant contributors to the model, as indicated by p-values less than 0.001. This regression table shows that individual-level factors significantly predict innovative teaching practices among faculty in Pakistani universities. The number of FDPs attended, technology selfefficacy, orientation towards innovation, and peer collaboration are all positively associated with innovative teaching practices. The model explains a significant portion of the variance (80%), indicating a strong relationship between these factors and innovative teaching practices. The regression analysis results presented in the table illustrate the impact of individual-level factors on innovative teaching practices within the context of Pakistani universities. Each coefficient represents the expected change in the dependent variable, innovative teaching practices, for a one-unit increase in the respective predictor variable, holding all other variables constant. The intercept, with a coefficient of 2.00, signifies the expected score for innovative teaching practices when all predictor variables are zero. This value serves as a baseline against which the effects of other variables are assessed. The coefficient for "FDPs Attended is 0.35, indicating that for each additional Faculty Development Program attended by faculty members, there was an associated increase of 0.35 units in the score for innovative teaching practices. This relationship was statistically significant, as indicated by the p-value of less than 0.001, implying that attending more FDPs positively influenced innovative teaching practices among faculty. Technology Self-Efficacy)" exhibited a coefficient of 0.40, indicating that for every one-unit increase in technology self-efficacy, there was an expected increase of 0.40 units in the score for innovative teaching practices. This relationship was highly significant, with a p-value of less than 0.001, suggesting that faculty members with higher confidence in their technological skills were more likely to implement innovative teaching practices.

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Similarly, "Innovation Orientation demonstrated a coefficient of 0.25, indicating that faculty members with a stronger inclination towards innovation were associated with a 0.25-unit increase in the score for innovative teaching practices for every one-unit increase in their innovation orientation. This relationship was also statistically significant (p < 0.001), underscoring the importance of fostering an innovative mindset among faculty. "Peer Collaboration exhibited a coefficient of 0.20, implying that each unit increase in peer collaboration was associated with a 0.20-unit increase in the score for innovative teaching practices. This relationship was statistically significant (p < 0.001), highlighting the positive impact of collaborative efforts among peers on fostering innovative teaching practices. These findings emphasize the importance of targeted interventions and support mechanisms to enhance faculty capacity and promote a culture of innovation in teaching.

Table 3: Impact of Institutional-Level Factors on Innovative Teaching Practices

Variable	Coefficient	Std.	t-	P-	95% Confidence
	(β)	Error	Value	Value	Interval
Intercept	1.80	0.35	5.14	< 0.001	[1.11, 2.49]
Institutional Support (Inst-Support)	0.50	0.07	7.14	< 0.001	[0.36, 0.64]
Professional Development	0.30	0.06	5.00	< 0.001	[0.18, 0.42]
Opportunities					
(Prof-Dev-Opp)					
Administrative Policies (Admin-	0.15	0.05	3.00	0.003	[0.05, 0.25]
Policies)					
Resource Availability (Resource-Avail)	0.25	0.06	4.17	< 0.001	[0.13, 0.37]

 $R^2 = 0.75$ , Adjusted  $R^2 = 0.73$ , F(4, 195) = 146.25, p < 0.001

## **Interpretation for Table 3:**

The second regression analysis focuses on the influence of institutional-level factors on the adoption of innovative teaching practices. Institutional support, availability of professional development opportunities, conducive administrative policies, and the availability of resources are all significant predictors. This model also demonstrates a strong explanatory power, with

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75% of the variance in innovative teaching practices accounted for by these variables. The regression table provided presents the statistical interpretation of institutional-level factors' impact on innovative teaching practices within Pakistani universities. Each coefficient represents the expected change in the dependent variable, innovative teaching practices, for a one-unit increase in the respective predictor variable, controlling for other factors. The intercept, with a coefficient of 1.80, denotes the expected score for innovative teaching practices when all predictor variables are zero. This serves as a reference point against which the effects of other variables are evaluated. "Institutional Support exhibits a coefficient of 0.50, indicating that for every one-unit increase in perceived institutional support, there was an associated increase of 0.50 units in the score for innovative teaching practices. This relationship was highly significant (p < 0.001), suggesting that a supportive institutional environment positively influenced faculty members' adoption of innovative teaching practices. "Professional Development Opportunities demonstrated a coefficient of 0.30, implying that each additional opportunity for professional development was associated with a 0.30-unit increase in the score for innovative teaching practices. This relationship was statistically significant (p < 0.001), indicating that access to professional development programs positively impacted the adoption of innovative teaching practices. "Administrative Policies exhibited a coefficient of 0.15, indicating that for every oneunit increase in the supportiveness of administrative policies, there was an associated increase of 0.15 units in the score for innovative teaching practices. This relationship was statistically significant at p = 0.003, suggesting that supportive administrative policies had a positive impact on fostering innovative teaching practices among faculty members. "Resource Availability demonstrated a coefficient of 0.25, suggesting that each additional unit of resource availability was associated with a 0.25-unit increase in the score for innovative teaching practices.

These tables collectively suggest that both individual and institutional factors play crucial roles in promoting innovative teaching practices in Pakistani universities. The significant predictors at the individual level include the number of FDPs attended, technology self-efficacy, innovation orientation, and peer collaboration, while at the institutional level, support, professional development opportunities, policies, and resources are key. The high R<sup>2</sup> values in both models indicate that a significant portion of the variance in innovative teaching practices is explained by these factors, emphasizing the multifaceted approach needed to enhance teaching innovation in

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higher education. These findings underline the importance of both empowering individual

faculty members through development programs and creating supportive institutional

environments to foster educational innovation.

Thematic analysis of interview questions on promoting faculty development programs and

innovative teaching practices.

**Perceptions of faculty development programs:** Participants were asked to reflect on their

perceptions of faculty development programs in Pakistani universities. Responses revealed a

variety of views, ranging from positive endorsements to constructive criticism.

**Perceived Effectiveness:** Many participants expressed appreciation for the knowledge and skills

gained through faculty development programs, highlighting their role in enhancing pedagogical

practices and professional growth.

Barriers and challenges: Several participants identified challenges such as limited resources,

time constraints, and inadequate institutional support as barriers to fully benefiting from faculty

development initiatives.

**Need for customization:** There was a consensus among participants regarding the importance of

tailoring faculty development programs to address the specific needs and contexts of individual

faculty members and disciplines.

**Impact on teaching practices:** Participants were asked to discuss the extent to which faculty

development programs influenced their teaching practices, particularly in terms of promoting

innovation. Key themes that emerged include:

Pedagogical awareness: Faculty members reported an increased awareness of innovative

pedagogical approaches and instructional strategies as a result of participating in faculty

development programs. This included the adoption of active learning techniques, learner-

centered approaches, and inclusive teaching practices.

Integration of technology: Many participants highlighted the role of faculty development

programs in fostering digital literacy and integrating technology into their teaching. Themes

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included the use of learning management systems, multimedia resources, and online

collaboration tools to enhance student engagement and learning outcomes.

Cultural and contextual factors: Participants acknowledged the influence of cultural and

contextual factors on the adoption of innovative teaching practices, emphasizing the importance

of aligning pedagogical innovations with local realities and student needs.

**Support and collaboration:** Participants were asked to reflect on the support mechanisms and

collaborative opportunities facilitated by faculty development programs. Themes that emerged

include:

Peer learning communities: Many participants emphasized the value of peer learning

communities and communities of practice established through faculty development initiatives.

These forums provided opportunities for sharing experiences, exchanging ideas, and receiving

constructive feedback from colleagues.

**Mentoring and coaching:** Participants highlighted the role of mentoring and coaching programs

in providing personalized support and guidance to faculty members, particularly early-career

educators. Themes included mentorship relationships, professional development plans, and

career advancement opportunities.

**Institutional support:** While some participants expressed satisfaction with institutional support

for faculty development, others identified areas for improvement, such as increased funding,

recognition of faculty efforts, and alignment of policies with teaching excellence initiatives.

Sustainability and continuous improvement: Participants were asked to discuss strategies for

sustaining and enhancing the impact of faculty development programs over time. Themes that

emerged include:

**Cultivating a culture of innovation:** Participants emphasized the importance of fostering a

culture of innovation and continuous improvement within academic departments and institutions

Long-term engagement: Participants highlighted the need for sustained engagement and

follow-up support beyond initial faculty development activities. This includes opportunities for

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ongoing professional development, curriculum renewal, and assessment of teaching

effectiveness.

**Research informed practices:** Many participants emphasized the importance of integrating

research-informed teaching practices into faculty development programs, promoting evidence-

based approaches to teaching and learning.

By analyzing these themes, this thematic analysis provides valuable insights into the perceptions,

experiences, and impacts of faculty development programs on promoting innovative teaching

practices in Pakistani universities. These findings can inform the design and implementation of

future faculty development initiatives and contribute to the enhancement of teaching quality and

student learning outcomes in higher education.

Conclusion

In conclusion, the research highlights the significance of faculty development programs in

fostering innovative teaching practices within Pakistani universities. By leveraging FDPs and

addressing both individual and institutional factors, Pakistani universities can enhance the quality

of teaching and learning experiences, ultimately contributing to the overall educational

excellence and student success. Qualitative analysis revealed a consensus among participants

regarding the positive impact of faculty development programs on promoting innovation in

teaching. Increased pedagogical awareness, enhanced instructional strategies, and improved use

of technology emerged as key outcomes of these programs. Additionally, discussions highlighted

the importance of ongoing support and collaboration among faculty members to sustain

innovative practices. Quantitative findings complemented qualitative insights, demonstrating a

significant correlation between participation in faculty development programs and the integration

of innovative teaching methods. The regression analysis revealed significant positive

associations between various factors and the adoption of innovative teaching practices.

Individual-level factors such as participation in FDPs, technology self-efficacy, innovation

orientation, and peer collaboration were found to be strong predictors of innovative teaching

practices. Similarly, institutional-level factors including perceived institutional support,

professional development opportunities, supportive administrative policies, and resource

availability were also positively associated with the adoption of innovative teaching practices.

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Despite variations based on demographics, such as academic discipline and teaching experience, the overall trend indicated a positive association between program engagement and pedagogical innovation. The triangulation of data sources further strengthened the credibility of findings, offering a nuanced understanding of the research topic. By synthesizing qualitative and quantitative results, this study underscores the imperative for continued investment in faculty development initiatives to cultivate a culture of innovation and excellence in Pakistani higher education. In light of these findings, recommendations include the refinement and expansion of existing faculty development programs, tailored support for diverse disciplinary contexts, and the establishment of collaborative platforms for knowledge sharing and professional growth. Ultimately, by prioritizing faculty development as a catalyst for innovation, Pakistani universities can enhance teaching quality, student engagement, and academic excellence in the 21st century.

#### **Limitations and Recommendations**

The study's findings may be limited by the representativeness of the sample, which was drawn from specific universities and may not fully capture the diversity of faculty experiences across all Pakistani higher education institutions. The reliance on self-reported data through surveys and interviews may introduce bias, as participants might provide socially desirable responses or overstate the effectiveness of faculty development programs. While efforts were made to select a diverse sample, the findings may not be fully generalizable to all Pakistani universities due to variations in institutional contexts, resources, and academic cultures.

Universities should diversify their faculty development programs to cater to the diverse needs and interests of faculty members across different disciplines and career stages.. Institutions should provide sustained support beyond initial faculty development activities, including opportunities for ongoing professional development, peer learning communities, and incentives for pedagogical innovation. Embrace innovative technologies and digital resources to enhance faculty development programs, providing training on digital pedagogies and online teaching tools. Encourage faculty members to engage in scholarly inquiry and evidence-based teaching practices through research-informed faculty development programs, fostering a culture of continuous improvement and reflective teaching practice. By addressing these recommendations,

Pakistani universities can strengthen their faculty development initiatives, empower educators to embrace innovative teaching practices, and ultimately enhance the quality of higher education in

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