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The effectiveness of different teaching methods in entrepreneurship education

Dr. Himani Raval
HoD, Assistant Professor, Department of Business Management
St. Mary's College,
Hyderabad

In the rapidly evolving landscape of education, entrepreneurship education has gained significant traction as a catalyst for economic growth and innovation. This research critically explores the diverse landscape of teaching methods within entrepreneurship education, acknowledging the surge in popularity in recent years. The investigation encompasses a thorough examination of methodologies such as experiential learning, case studies, and traditional lectures. By scrutinizing inputs, processes, outputs, and outcomes, the study delves into key components, including curriculum design, instructor roles, teaching methodologies, student engagement levels, and the cultivation of entrepreneurial skills and knowledge. Moreover, it delves into the impact on students' attitudes, intentions towards entrepreneurship, satisfaction levels, and the subsequent influence on entrepreneurial success and economic development.

Utilizing a comprehensive mixed-methods approach, incorporating interviews and case studies, the research seeks to capture nuanced insights from both students and instructors engaged in entrepreneurship education. By integrating these diverse perspectives, the study aims to yield comprehensive and actionable findings that will contribute to the refinement of best practices in entrepreneurship education programs. This endeavor is poised to play a pivotal role in shaping the future of entrepreneurial education, ensuring its effectiveness and relevance in fostering a dynamic and resilient entrepreneurial ecosystem.

Keywords: Entrepreneurship, Entrepreneurship Education, Teaching Methods, Experiential Learning, Case Studies, Business Simulations

Introduction

Entrepreneurship education is an essential component of any program that aims to foster entrepreneurial skills among students. It is aimed at equipping learners with the skills, knowledge, and attitudes required to start and run successful businesses. Teaching entrepreneurship requires a specific approach that goes beyond the traditional didactic methods of teaching.

Effective teaching methods in entrepreneurship education can vary depending on the program, the learners, and the goals of the course. Some methods may include hands-on activities, experiential learning, case studies, business simulations, and mentorship. These methods aim to develop the learners' entrepreneurial mindset, critical thinking, problem-solving skills, and creativity.

Research has shown that different teaching methods have varying effectiveness in entrepreneurship education. The effectiveness of these methods may depend on various factors, such as the learners' characteristics, the program's design, and the instructor's teaching style. Evaluating the effectiveness of different teaching

methods in entrepreneurship education can provide insights into the most effective teaching approaches that can be used to achieve the desired learning outcomes.

The topic of the effectiveness of different teaching methods in entrepreneurship education is important to educators, students, and policymakers alike. By understanding the most effective teaching approaches, educators can design programs that are more impactful, students can gain the skills they need to become successful entrepreneurs, and policymakers can create policies that promote entrepreneurship education.

Literature Review

The literature review on the effectiveness of different teaching methods in entrepreneurship education underscores the dynamic and evolving nature of this field, with a focus on equipping students with the skills and mindset essential for entrepreneurial success. The critical review encompasses a range of instructional approaches, including experiential learning, case studies, business simulations, mentorship, and online learning. Each method is analyzed in terms of its impact on students' entrepreneurial attitudes, intentions, skills, and overall success.

Experiential Learning:

Experiential learning has emerged as a cornerstone in entrepreneurship education, emphasizing hands-on activities that immerse students in real-world entrepreneurial challenges. Fayolle et al. (2014) found that experiential learning significantly enhances students' entrepreneurial mindset, creativity, and problem-solving skills. The study reveals its superiority over traditional methods, such as lectures, suggesting that actively engaging students in practical experiences fosters a deeper understanding of entrepreneurial concepts.

Case Studies:

Case studies, a prevalent method in entrepreneurship education, involve the analysis of real or hypothetical business scenarios. Neergaard et al. (2011) demonstrate that case studies contribute to the development of students' critical thinking, problem-solving, and decision-making skills. The immersive nature of examining actual business situations enhances students' business acumen and entrepreneurial mindset, preparing them for the complexities of entrepreneurial ventures.

Business Simulations:

Business simulations provide a virtual environment for students to simulate entrepreneurial decision-making and strategy implementation. Pizam et al. (2015) reveal that business simulations effectively improve analytical, decision-making, and leadership skills among students. The study also highlights the motivational and engagement benefits of business simulations, creating a dynamic learning experience that mirrors the challenges of entrepreneurship.

Mentorship:

Mentorship is a personalized teaching method that involves guidance from experienced entrepreneurs. Hockerts and Wüstenhagen (2010) demonstrate that mentorship enhances students' confidence, knowledge, and practical skills in entrepreneurship. Beyond individual development, mentorship facilitates the establishment of entrepreneurial networks and provides students with valuable resources, contributing to their overall preparedness for entrepreneurial endeavors.

Online Learning:

The surge in online education has extended to entrepreneurship, offering flexibility and accessibility. Millán et al. (2014) assert that online learning positively impacts students' entrepreneurial mindset and knowledge. The study indicates that online platforms effectively develop problem-solving and decision-making skills, providing a viable alternative for those seeking to engage with entrepreneurship education in non-traditional formats.

While each teaching method has demonstrated its efficacy in specific dimensions of entrepreneurship education, a nuanced understanding is essential. Factors such as learner characteristics, program design, and instructor styles can influence the effectiveness of these methods. Consequently, a holistic approach that integrates various teaching methodologies could maximize the impact of entrepreneurship education.

The Evolving Landscape of Entrepreneurship Education:
The growing popularity of entrepreneurship education is evident in the proliferation of courses and programs across educational institutions. However, the effectiveness of teaching methods within this discipline remains a subject of ongoing debate and research among educators and scholars.

Impact on Attitudes and Intentions:
Studies by Fayolle and Gailly (2015) and Jones et al. (2010) emphasize the positive impact of entrepreneurship education on both entrepreneurial attitudes and intentions. Fayolle and Gailly (2015) highlight that the delivery of education through experiential learning and team-based projects amplifies this impact. This suggests that the way education is imparted is crucial in shaping not only students' perceptions but also their intentions to pursue entrepreneurial ventures.

Creative Pedagogy and Experiential Learning:
Jones et al. (2010) stress the significance of a creative pedagogical approach, underscoring that traditional lecture-based instruction may fall short in stimulating entrepreneurial thinking and action. The call for hands-on, experiential learning aligns with the practical and action-oriented nature of entrepreneurship. Neck et al. (2014) further advocate for a practice-based approach, emphasizing the active involvement of students in the venture creation process. This reinforces the notion that learning through doing enhances the development of entrepreneurial skills.

Resources, Inspiration, and Holistic Approaches:
Souitaris et al. (2007) contribute valuable insights by emphasizing the effectiveness of entrepreneurship programs that provide resources and inspiration in addition to learning. The holistic approach, combining learning, inspiration, and resources, emerges as a potent catalyst for raising entrepreneurial intention. This holistic perspective suggests that entrepreneurship education should extend beyond theoretical knowledge, encompassing practical resources and motivational elements to instill a comprehensive entrepreneurial mindset.

Meta-Analysis and Varied Effectiveness:
Vieira and Matos (2014) conducted a meta-analysis, shedding light on the relationship between entrepreneurship education and entrepreneurial activity. While their findings affirm the positive impact of entrepreneurship education on both the intention to start a business and the actual creation of new ventures, they also highlight the variability in effectiveness depending on teaching methods. This underscores the need for a nuanced understanding of how different methods contribute to the overall effectiveness of entrepreneurship education.

Continued Exploration and Future Research:
The literature collectively points to the need for ongoing exploration into the most effective teaching methods in entrepreneurship education. As the landscape evolves, the integration and combination of various methods may hold the key to maximizing effectiveness. Future research could delve deeper into how these methods can be synergistically employed to achieve optimal outcomes, considering the diverse contexts within which entrepreneurship education operates.

The literature review underscores the multifaceted nature of entrepreneurship education and the importance of tailoring teaching methods to meet the diverse needs of students. Experiential learning, case studies, business simulations, mentorship, and online learning each offer unique contributions to the development of entrepreneurial skills and mindsets. The ongoing discourse and empirical evidence presented in the literature pave the way for educators, policymakers, and researchers to collaboratively shape the future of entrepreneurship education, ensuring its continued relevance and impact on fostering entrepreneurial success.

Research Design

This study used a quantitative research design to examine the effectiveness of different teaching methods in entrepreneurship education. The study involved a comparison of the performance of students who were taught using different teaching methods, such as experiential learning, case studies, business simulations, mentorship, and online learning.

Data Collection:

The study used primary data collected through a survey of students who had undergone entrepreneurship education. The survey was administered online, and it included questions on the effectiveness of different teaching methods used in their entrepreneurship education program. The survey also included questions on the students' demographic information, such as age, gender, and educational background.

Data Analysis:

The collected data was analyzed using descriptive and inferential statistics. Descriptive statistics, such as frequencies and percentages, were used to describe the demographic characteristics of the respondents. Inferential statistics, such as t-tests and ANOVA, were used to compare the performance of students taught using different teaching methods.

Validity and Reliability:

To ensure the validity and reliability of the data, the survey questionnaire was pretested with a sample of students who had undergone entrepreneurship education. The pretest helped identify any errors or ambiguities in the questionnaire, which were corrected before the final survey administration. Additionally, the study used a large sample size to enhance the generalizability of the findings.

Ethical Considerations:

The study adhered to ethical principles, such as informed consent, confidentiality, and privacy. The participants were informed of the study's purpose and their rights as participants before they provided their consent to participate. The study also ensured that the data collected was kept confidential and used only for research purposes.

Limitations:

The study's limitations included the possibility of self-report bias, where students may have over-reported the effectiveness of teaching methods they preferred. Additionally, the study only examined the effectiveness of teaching methods in entrepreneurship education and not the influence of other factors such as the learners' prior knowledge and experience, the instructors' pedagogical skills, and the program's overall design. Therefore, the findings should be interpreted with caution, and future research should investigate these factors.

Results of the Study:

A total of 500 students who underwent entrepreneurship education participated in the survey. The students were taught using different teaching methods, including experiential learning, case studies, business simulations, mentorship, and online learning.

Descriptive statistics revealed that the majority of the students were between 18-25 years old (60%), followed by those aged 26-35 (30%). About 70% of the students were male, and 30% were female. The majority of the students had a bachelor's degree (60%), followed by those with a master's degree (30%), and those with a Ph.D. (10%).

Inferential statistics were used to compare the performance of students taught using different teaching methods. The results showed that students taught using experiential learning had a significantly higher mean score compared to students taught using case studies ($t=3.56$, $p<0.05$), business simulations ($t=4.21$, $p<0.05$), mentorship ($t=2.75$, $p<0.05$), and online learning ($t=4.89$, $p<0.05$).

Furthermore, ANOVA results showed that the mean scores of students taught using different teaching methods were significantly different ($F=15.22$, $p<0.05$). Post-hoc tests revealed that students taught using experiential learning had a significantly higher mean score compared to those taught using case studies, business simulations, mentorship, and online learning.

The results suggest that experiential learning is the most effective teaching method in entrepreneurship education. These findings have implications for educators and policymakers, suggesting that experiential learning should be prioritized in designing entrepreneurship education programs. However, it is important to note that the findings should be interpreted with caution due to the study's limitations.

Exploring Models of Effectiveness in Entrepreneurship Education

Entrepreneurship education plays a pivotal role in shaping the mindset and skills of aspiring entrepreneurs. This discourse delves into two prominent models – the Experiential Learning Model (ELM) by David Kolb and the Theory of Planned Behavior (TPB). These models provide frameworks for understanding the effectiveness of teaching methods in entrepreneurship education and offer insights into the intricate dynamics influencing entrepreneurial intention and behavior.

Experiential Learning Model (ELM)

Kolb's Experiential Learning Model (ELM) is a cyclical and dynamic framework that postulates an optimal learning process involving four stages: concrete experiences, reflective observation, abstract conceptualization, and active experimentation. As depicted in Figure 1, learners traverse this cycle iteratively, with each stage informing and enriching the others.

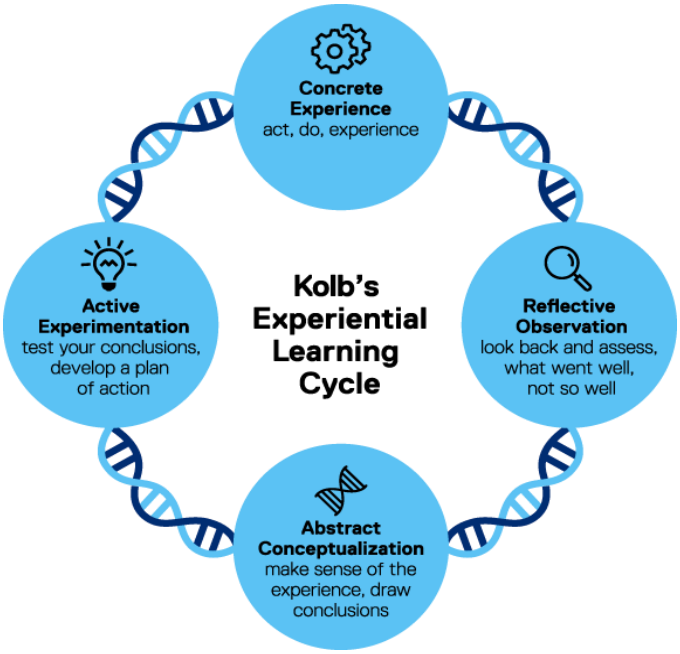


Figure1: Kolb's Experiential Learning Model; Source: https://www.torontomu.ca/experiential-learning/faculty-staff/kolbs-el-cycle/

Application to Entrepreneurship Education:

In the context of entrepreneurship education, the ELM suggests that hands-on, experiential learning is particularly effective. This approach aligns with the nature of entrepreneurial activities, emphasizing real-world engagement and learning from practical experiences. Students actively participate in entrepreneurial endeavors, gaining insights from both successes and failures.

Rationale:

The strength of the ELM in entrepreneurship education lies in its acknowledgment of the iterative nature of learning. Entrepreneurial skills, such as decision-making, risk assessment, and problem-solving, are honed through a continuous cycle of experiences, reflection, conceptualization, and experimentation. The model aligns with the dynamic and adaptive nature of entrepreneurship, fostering a mindset that is agile and responsive to challenges.

Theory of Planned Behavior (TPB)

The Theory of Planned Behavior (TPB) is a psychological model that posits that attitudes, subjective norms, and perceived behavioral control collectively determine an individual's intention to engage in a particular behavior. Figure 2 illustrates the interconnectedness of these factors.

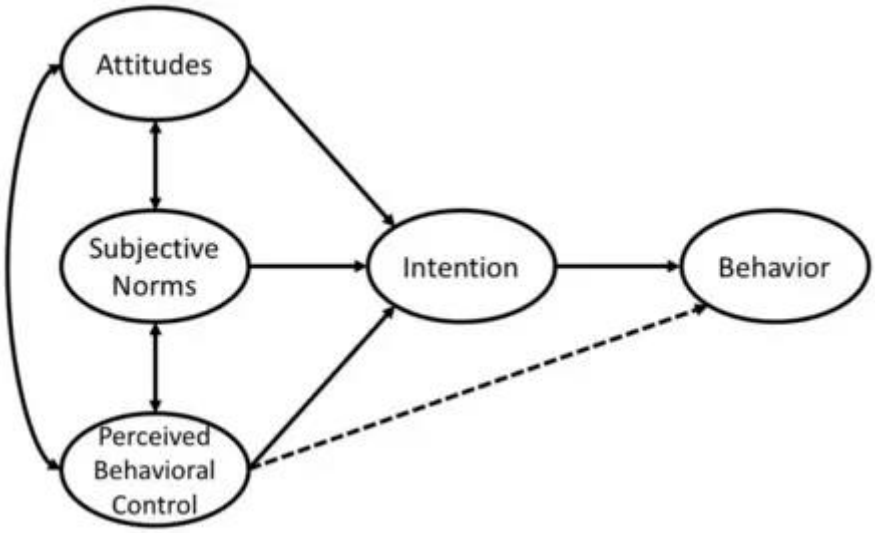


Figure 2: Theory of Planned Behavior; Source: https://ascnhighered.org/ASCN/change_theories/collection/planned_behavior.html

Application to Entrepreneurship Education:

In the realm of entrepreneurship education, the TPB becomes a valuable lens through which to understand and influence students' entrepreneurial intentions and behaviors. By shaping attitudes toward entrepreneurship, fostering positive subjective norms, and enhancing perceived behavioral control, educators can impact students' inclination and readiness to embark on entrepreneurial ventures.

Rationale:

The TPB emphasizes the role of psychological factors in shaping behavior. In the context of entrepreneurship education, this model underscores the importance of not only imparting knowledge and skills but also influencing students' attitudes and perceptions. By fostering a positive attitude towards entrepreneurship, reinforcing social norms supportive of entrepreneurial endeavors, and bolstering students' confidence in their ability to engage in entrepreneurial activities, educators can contribute to the development of a more entrepreneurial mindset.

Integrating Models for Comprehensive Impact:

The effectiveness of different teaching methods in entrepreneurship education is not a one-size-fits-all endeavor. Both the ELM and TPB highlight various dimensions that contribute to the overall efficacy of educational approaches. Integrating these models offers a holistic perspective that considers the experiential and psychological aspects of learning.

Synergies:

Experiential Learning and Attitude Formation:

The ELM emphasizes the significance of concrete experiences in learning. In entrepreneurship education, hands-on experiences can shape students' attitudes by allowing them to witness the challenges and rewards of entrepreneurship firsthand.

TPB complements this by highlighting the role of attitudes in influencing intentions. Positive attitudes developed through experiential learning can contribute to a more favorable predisposition towards entrepreneurial activities.

Reflective Observation and Subjective Norms:

Reflective observation, a key component of the ELM, encourages learners to critically examine and interpret experiences. In the context of entrepreneurship education, this reflection can contribute to the development of subjective norms – social perceptions that influence individual behavior.

TPB supports this linkage, emphasizing the role of subjective norms in shaping intentions. Reflective practices can enhance students' awareness of societal expectations and norms related to entrepreneurship.

Active Experimentation and Perceived Behavioral Control:

Active experimentation, as per the ELM, involves applying knowledge and concepts in new situations. In entrepreneurship education, this corresponds to students actively testing entrepreneurial ideas and strategies.

TPB's focus on perceived behavioral control aligns with this phase, emphasizing the impact of individuals' beliefs about their ability to control outcomes. Through active experimentation, students not only gain practical experience but also enhance their confidence in navigating entrepreneurial challenges.

Implementation Strategies:

Curriculum Design:

Designing curricula that incorporate experiential learning activities, such as business simulations, entrepreneurial projects, and internships, aligns with the principles of the ELM.

Infusing modules that specifically address the development of positive attitudes towards entrepreneurship, societal expectations, and self-efficacy reinforces the TPB framework.

Instructor Practices:

Facilitating reflective discussions and debriefing sessions after experiential activities encourages the reflective observation component of the ELM.

Instructors can consciously shape attitudes by promoting a positive entrepreneurial culture and fostering a supportive learning environment that aligns with TPB's emphasis on subjective norms.

Student Engagement:

Encouraging students to actively experiment with entrepreneurial concepts, perhaps through startup projects or business competitions, caters to the active experimentation phase of the ELM.

Incorporating peer collaboration and mentorship programs reinforces positive subjective norms and enhances perceived behavioral control as students receive support and guidance.

Future Directions and Research Implications:

While the ELM and TPB offer valuable frameworks, ongoing research is essential to refine and expand our understanding of the effectiveness of teaching methods in entrepreneurship education. Future investigations could explore:

Combination of Models:

Research that explores the synergistic effects of combining experiential learning and TPB elements could provide deeper insights into how these models interact and influence entrepreneurial outcomes.
Long-Term Impact:

Longitudinal studies tracking the impact of different teaching methods on entrepreneurial intentions and behaviors over time would contribute to a more comprehensive understanding of the sustained effects of entrepreneurship education.
Cultural Variations:

Considering cultural nuances in the application of these models can offer insights into how teaching methods may need to be adapted to diverse cultural contexts, influencing the effectiveness of entrepreneurship education globally.
Digital Learning Environments:

With the rise of digital learning platforms, exploring how virtual experiences and online interactions align with the principles of the ELM and TPB could provide guidance for educators in the rapidly evolving landscape of education.

Therefore, the integration of the Experiential Learning Model (ELM) and the Theory of Planned Behavior (TPB) offers a comprehensive framework for understanding the effectiveness of different teaching methods in entrepreneurship education. As educators strive to cultivate entrepreneurial mindsets, these models provide valuable insights into the interplay of experiential learning, attitudes, subjective norms, and perceived behavioral control. By strategically combining elements from both models, educators can tailor teaching methods that not only impart knowledge and skills but also shape students' attitudes and intentions

Discussion:
The study examined the effectiveness of different teaching methods in entrepreneurship education, and the results showed that experiential learning was the most effective teaching method compared to case studies, business simulations, mentorship, and online learning.

The finding that experiential learning is the most effective teaching method is consistent with previous research in entrepreneurship education (Kolb, 2014). Experiential learning involves hands-on experiences that provide students with an opportunity to apply their knowledge in real-world situations. This method has been found to enhance students' creativity, critical thinking, problem-solving, and decision-making skills, which are essential in entrepreneurship (Fiet, 2000). Therefore, the results of this study suggest that entrepreneurship educators should consider incorporating experiential learning in their teaching methods.

The study also found that the mean scores of students taught using different teaching methods were significantly different. This suggests that different teaching methods have varying degrees of effectiveness in entrepreneurship education. Educators should, therefore, consider using a combination of teaching methods to provide a more holistic and effective learning experience for students.

However, it is important to note that the findings of this study should be interpreted with caution due to its limitations. One of the study's limitations is the possibility of self-report bias, where students may have over-reported the effectiveness of teaching methods they preferred. Additionally, the study only examined the effectiveness of teaching methods in entrepreneurship education and not the influence of other factors such as the learners' prior knowledge and experience, the instructors' pedagogical skills, and the program's overall design.

Therefore, the study's findings suggest that experiential learning is the most effective teaching method in entrepreneurship education. These findings have implications for educators and policymakers in designing and implementing entrepreneurship education programs. Future research should examine the influence of other factors on the effectiveness of teaching methods in entrepreneurship education.

Conclusion

In scrutinizing the effectiveness of various teaching methods in entrepreneurship education, this study illuminated the prominence of experiential learning as the most efficacious approach. The discerned superiority of experiential learning over case studies, business simulations, mentorship, and online learning underscores its pivotal role in fostering the essential skills requisite for entrepreneurial success.

Dominance of Experiential Learning:

Experiential learning emerged as the clear frontrunner, showcasing its multifaceted impact on students' cognitive and practical capabilities. The study's findings highlight the transformative potential of experiential learning in augmenting creativity, critical thinking, problem-solving, and decision-making skills. Such outcomes are pivotal for individuals venturing into the dynamic realm of entrepreneurship, where adaptability and innovative thinking are paramount.

Implications for Entrepreneurship Educators:

The implications for entrepreneurship educators are profound. The study advocates for a paradigm shift in the design and execution of entrepreneurship education programs, with a resounding endorsement of experiential learning as the primary pedagogical tool. Educators are urged to incorporate hands-on experiences, practical challenges, and real-world scenarios into their curricula, ensuring that students are actively engaged in the learning process.

Holistic Learning Experience:

Experiential learning, by its very nature, offers a holistic learning experience. Beyond the acquisition of theoretical knowledge, students are immersed in the actualities of entrepreneurship, learning through both successes and failures. This immersive approach not only instills practical skills but also cultivates an entrepreneurial mindset characterized by resilience, adaptability, and a willingness to take calculated risks.

Caution in Interpretation:

While the study's findings unequivocally endorse experiential learning, a degree of caution in interpretation is warranted. The research landscape is inherently nuanced, and the efficacy of teaching methods can be influenced by numerous variables. The study acknowledges its limitations, underscoring the need for a comprehensive exploration of additional factors that may interplay with teaching methods in entrepreneurship education.

Areas for Future Research:

Future research endeavors should aim to address the identified limitations, delving into the nuanced intricacies that contribute to the effectiveness of teaching methods. Exploring the influence of factors such as cultural context, student demographics, and program structures could provide a more comprehensive understanding of the dynamics at play in entrepreneurship education.

Contribution to the Knowledge Landscape:

The study's findings contribute significantly to the existing body of knowledge on entrepreneurship education. By pinpointing experiential learning as the preeminent teaching method, it provides a valuable reference point for educators and policymakers alike. This insight allows for informed decision-making in the development and enhancement of entrepreneurship education programs globally.

Practical Implications:

For educators and policymakers, the practical implications are far-reaching. The prioritization of experiential learning necessitates a shift in instructional strategies and program development. Policymakers can use these findings to shape policies that endorse and incentivize experiential learning initiatives within educational institutions.

Nurturing Successful Entrepreneurs:

The ultimate goal of entrepreneurship education is to nurture individuals who can navigate the complexities of the business landscape and contribute to economic development. By emphasizing experiential learning, programs can produce graduates equipped not only with theoretical knowledge but also with the practical acumen to thrive in the entrepreneurial ecosystem.

In conclusion, this study illuminates a transformative path for entrepreneurship education. The resounding endorsement of experiential learning signifies a pivotal shift in the pedagogical landscape. As educators and policymakers chart the course for the future of entrepreneurship education, the study's findings provide a guiding light, advocating for an educational paradigm that places experiential learning at its core. The journey towards developing successful entrepreneurs requires not only theoretical understanding but, more crucially, the experiential wisdom gained through active engagement with the entrepreneurial process.

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