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Article

Research on Pathways for Cultivating Positive Psychological Quality of College Students under New Quality Productivity

Huaibo Mu [1,*]

[1] Hainan Vocational University of Science and Technology, Haikou, China
* Correspondence: Huaibo Mu, Hainan Vocational University of Science and Technology, Haikou, China

Abstract: The rapid development of new-type productive forces has posed novel and more complex demands on higher education talent cultivation. Positive psychological qualities, as essential components of college students' comprehensive competencies encompassing optimism, self-confidence, adaptability, resilience, and innovative awareness, serve to stimulate intrinsic motivation and enhance their capacity to meet the evolving needs of new-type productive forces. This holds significant implications for accelerating high-quality talent development and supporting national strategies for innovation-driven growth. Grounded in the context of new-type productive forces, this study first clarifies their connotation, core characteristics, and emerging expectations for the psychological qualities of university students, thereby revealing the value and strategic significance of cultivating positive psychological traits under this paradigm. On this basis, the paper systematically analyzes current challenges in college students' psychological development, including insufficient initiative, weak frustration tolerance, and misalignment between mental health education and industrial transformation. Building on these insights, it proposes actionable pathways for fostering positive psychological qualities, such as integrating positive psychology into curricula, constructing multi-level support systems, strengthening campus culture and practice platforms, and promoting collaborative education among universities, families, and society. The study aims to provide theoretical guidance and practical references for the reform and innovation of mental health education in contemporary higher education institutions under the background of new-type productive forces.

Keywords: new quality productivity; positive psychological qualities; college students; mental health education; talent cultivation; higher education reform

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1. Introduction

Emerging productive forces are fundamentally transforming the socio-economic landscape, driving profound changes across industries and societies. The convergence of technological advancements and industrial evolution has created an urgent need for a workforce equipped with advanced competencies and adaptability. Higher education, as the bedrock of talent cultivation, is now tasked with reimagining its educational paradigms to align with these dynamic demands. Traditional methods of knowledge dissemination, which primarily focus on rote learning and static skill acquisition, are increasingly inadequate in addressing the complexities of innovation-driven progress. To thrive in this rapidly evolving environment, students must not only acquire robust professional expertise but also cultivate resilience, adaptability, and other positive psychological attributes. These qualities are essential for navigating the multifaceted and unpredictable challenges of the future. Consequently, identifying and implementing effective strategies to foster these psychological strengths within the context of emerging productive forces has become a pivotal focus in the ongoing reform and advancement of higher education systems worldwide [1, 2].

2. Analysis of the Connotation of New Quality Productivity

New-type productive forces represent an innovative achievement of Marxist productivity theory in the new era, embodying profound theoretical insights and extensive practical experience in guiding socioeconomic development. Distinct from traditional productive forces, these emerging forces transcend technological constraints inherent to historical stages, exhibiting unique developmental characteristics. Their core driving force lies in the deep integration and widespread application of cutting-edge technologies, which has spurred the rapid emergence of new industrial forms and business models. This process fundamentally reshapes social production relations and institutional frameworks, fostering a dynamic environment for economic and societal evolution. Essentially, new-type productive forces serve as concrete pathways for realizing advanced productive forces, representing transformative outcomes born from interdisciplinary breakthroughs in scientific innovation [3]. Their growth not only acts as a pivotal engine for human civilization advancement but also constitutes a critical pillar in modernization efforts [4]. The rich cultural heritage of China provides abundant spiritual nourishment and intellectual resources for nurturing these forces, highlighting the unique synergy between cultural traditions and technological innovation [2, 5]. The rise of new-type productive forces signifies profound transformations in the allocation of production factors, the restructuring of industrial organization, and the evolution of economic growth patterns. These developments present significant challenges and opportunities for updating talent cultivation philosophies and innovating practical models in higher education. By fostering interdisciplinary collaboration and embracing forward-thinking educational strategies, institutions can better equip individuals to navigate and contribute to this transformative era, ensuring that the potential of new-type productive forces is fully realized in shaping a sustainable and prosperous future.

3. The Value of Cultivating Positive Psychological Qualities in College Students under New Quality Productivity

3.1. Enhancing innovative thinking capabilities to meet the demands of technological transformation

Emerging productive forces, driven by transformative technologies and groundbreaking innovations, necessitate elevated standards for innovative thinking among professionals [6, 7]. Fostering positive psychological qualities in college students plays a pivotal role in unlocking their innate curiosity and intellectual potential, encouraging them to embrace openness and actively explore uncharted territories. By cultivating an optimistic mindset, students are better equipped to approach complex technical challenges with enhanced mental flexibility and sharper problem-solving skills. Positive emotional experiences serve as a catalyst for broadening cognitive horizons and promoting divergent thinking, which is essential for generating novel ideas and solutions. In the context of rapid advancements in fields such as artificial intelligence, quantum computing, and biotechnology, students with robust psychological resilience are more adept at navigating the dynamic demands of technological progress. This resilience not only enhances their ability to adapt but also empowers them to excel in innovative practices. By leveraging these qualities, they can make meaningful contributions to the broader landscape of scientific and technological development, aligning their efforts with the overarching goals of advancing innovation and addressing the challenges posed by an ever-evolving global environment [8].

3.2. Enhancing psychological resilience to cope with complex environmental challenges

In the development of new productive forces, fostering positive psychological qualities significantly contributes to strengthening college students' mental resilience. These attributes empower individuals to swiftly adapt their mindset and sustain emotional equilibrium when confronted with obstacles and difficulties. Building resilience equips students with the ability to discern potential opportunities within

adversity and convert external pressures into catalysts for personal and professional growth [9, 10]. For instance, when faced with technical challenges or project setbacks, those possessing robust psychological resilience are less likely to abandon their efforts. Instead, they actively analyze failures, refine their approaches, and persist in their endeavors. This mental fortitude is especially vital during the formative phases of emerging industries, where innovation frequently demands iterative experimentation and adaptive strategies. By nurturing these psychological traits, students establish a foundational mental framework that supports an optimistic and forward-thinking outlook, enabling them to navigate dynamic career paths with confidence and determination. Such qualities not only enhance individual growth but also contribute to the broader development of innovative industries by fostering a culture of perseverance and adaptability.

3.3. Cultivate a spirit of collaboration and sharing to align with an integrated development model

The development model of new-type productive forces underscores the importance of interdisciplinary integration and cross-domain collaboration, recognizing that individual efforts alone are insufficient to address the complexities of modern innovation. Fostering positive psychological qualities among university students plays a pivotal role in equipping them with advanced interpersonal communication skills and a heightened awareness of teamwork dynamics. These traits empower students to exhibit inclusive, empathetic, and supportive behaviors during collaborative endeavors, thereby enhancing the overall effectiveness of group activities. Individuals with such qualities are more inclined to share knowledge and resources, engage in constructive dialogue, and navigate conflicts to achieve consensus. This collaborative spirit is indispensable in contemporary industrial ecosystems, where interconnectedness defines success. In contexts such as corporate research and development teams or multinational project implementations, individuals with robust teamwork capabilities act as critical facilitators, bridging gaps and ensuring seamless coordination. Furthermore, nurturing positive psychological attributes not only strengthens social competencies but also cultivates an open and inclusive mindset. These attributes are fundamental for thriving in the era of new-type productive forces, where adaptability and cooperation are paramount for sustained progress and innovation.

3.4. Establishing a lifelong learning philosophy to align with the pace of knowledge renewal

In the era of rapidly evolving productivity standards, the acceleration of knowledge renewal has rendered traditional, static learning models insufficient for addressing the dynamic demands of career development [10]. Embracing positive psychological attributes can significantly enhance college students' intrinsic motivation for learning, empowering them to cultivate a self-directed approach to continuous education. Individuals who adopt a growth-oriented mindset perceive each learning experience as an opportunity for self-enhancement, rather than as an obligation or source of stress [7]. This perspective fosters resilience and adaptability, enabling learners to approach new concepts and skills with openness and enthusiasm. A proactive attitude toward learning facilitates seamless integration into diverse educational environments and methodologies, ensuring readiness to navigate the complexities of modern knowledge ecosystems. In industries marked by rapid technological advancements and frequent innovation cycles, maintaining a strong drive for learning and developing advanced learning capabilities are essential for sustaining a competitive edge and contributing to the forefront of industry progress. By prioritizing lifelong learning, individuals can effectively align their personal growth trajectories with the evolving demands of the professional landscape.

4. Pathways for Cultivating Positive Psychological Qualities in College Students under New Quality Productivity

4.1. Innovating Educational Concepts and Building a Holistic Development System

Higher education institutions must move beyond traditional methods of knowledge transmission and adopt an educational philosophy that prioritizes the holistic development of students. This philosophy underscores the equal importance of intellectual growth and emotional well-being, advocating for the balanced enhancement of both cognitive and non-cognitive abilities. It also emphasizes the simultaneous advancement of academic achievements and mental health. Educators are encouraged to redefine talent development goals by embedding the cultivation of positive psychological qualities into professional skill training. This requires the creation of an integrated educational framework that seamlessly combines knowledge dissemination, skill development, value orientation, and psychological support. Institutional leadership plays a pivotal role in this transformation by formulating clear policies that promote holistic development, assembling interdisciplinary teams, and leveraging resources from diverse fields such as psychology, pedagogy, and management science to provide comprehensive support for student growth [6]. Faculty members must shift their roles from being mere transmitters of knowledge to becoming mentors and companions in the developmental journey of students. This involves recognizing individual differences and adopting tailored teaching strategies that address specific needs [4]. Innovation in educational philosophies also necessitates the establishment of dynamic feedback mechanisms to monitor students' psychological progress and make timely adjustments to educational plans [8]. For instance, in "Construction Engineering" courses, educators can implement project-based learning models that encourage students to collaborate in interdisciplinary teams to address real-world engineering challenges. This approach fosters a sense of responsibility, teamwork, and resilience. When students face technical difficulties, instructors can guide them to adopt positive thinking strategies to overcome obstacles, thereby nurturing an optimistic outlook. Additionally, celebrating milestones through achievement-sharing sessions and reflective discussions can enhance students' confidence and reinforce their sense of accomplishment, further contributing to their overall psychological and emotional development.

4.2. Optimize curriculum design by integrating psychological literacy content

Higher education institutions should establish curriculum frameworks that balance academic rigor with humanistic values. University administrators must carefully structure the ratio between required and elective courses to ensure psychological literacy education occupies a prominent position within the curriculum. Professional course design should evolve beyond traditional knowledge transmission models, emphasizing the integration of positive psychological elements such as optimism, resilience, and innovative thinking into disciplinary content. Educators should actively identify and incorporate these elements into their teaching practices, fostering a more holistic learning experience. Interdisciplinary course development is particularly significant in achieving this goal. Institutions can design integrated programs such as "Technology Ethics and Mental Health" or "Innovative Thinking and Emotional Management," which dismantle disciplinary silos and promote seamless knowledge integration [5]. Pedagogical innovation is equally essential [4]. Methods such as case studies, project-based learning, and flipped classrooms can effectively engage students, enhancing their enthusiasm and intrinsic motivation. For instance, in the context of artificial intelligence education, instructors could design collaborative projects where students create intelligent applications to address real-world challenges. Through iterative programming and debugging, students develop perseverance in overcoming obstacles, improve communication skills through teamwork, and ignite creative thinking during brainstorming sessions. These activities also build confidence and a sense of accomplishment through project presentations. Furthermore, educators should encourage

students to critically reflect on the societal implications of AI, fostering a sense of responsibility and ethical awareness while simultaneously nurturing positive psychological traits and professional competencies [10]. Additionally, it is imperative to refine the course evaluation system. Beyond traditional knowledge assessments, a process-oriented evaluation mechanism should be implemented to emphasize the development of students' positive attitudes, collaborative abilities, and innovative skills throughout the learning process. This comprehensive approach ensures that students not only acquire technical expertise but also cultivate essential psychological and interpersonal qualities.

4.3. Enriching practical platforms and strengthening experiential training models

Educational institutions should establish a network of practice bases that effectively integrate both on-campus and off-campus resources. These bases should be designed to offer challenging and innovative practical projects that enable students to develop perseverance and optimism by addressing complex, real-world problems. Educators must carefully design experiential learning activities and create immersive, contextualized environments where students can engage with the demands of modern productivity forces. By simulating or directly participating in real-world work scenarios, students gain valuable insights into the skills and competencies required for success. Institutions should also promote interdisciplinary practical activities, encouraging students to engage in research projects, social surveys, volunteer services, and other hands-on experiences. Such activities not only foster teamwork and collaboration but also enhance psychological resilience by helping students navigate challenges effectively. To support these efforts, educators should implement comprehensive practice guidance mechanisms that provide timely feedback and support. This approach helps students reflect on their growth, build self-awareness, and develop a positive outlook. For instance, in programs like "Network and New Media," instructors can organize students to participate in authentic new media product development projects. These projects can guide students through the entire process, from conducting market research to creative planning and technical execution. Throughout this journey, students may encounter technical difficulties, time constraints, and interpersonal disagreements. Educators should encourage them to apply principles of positive psychology, such as maintaining curiosity and an exploratory mindset when facing technical challenges. During team conflicts, instructors can teach empathy and effective communication strategies to resolve disagreements constructively. Upon completing projects successfully, students should be guided to reflect on their achievements, reinforcing confidence and a sense of accomplishment [1]. Conversely, when encountering setbacks, educators should help students extract valuable lessons, fostering resilience and a growth-oriented mindset that prepares them for future challenges.

4.4. Improve the evaluation mechanism and establish multidimensional development standards

In the context of evolving educational paradigms, the traditional single-dimensional academic performance evaluation model is increasingly inadequate for addressing the complexities of interdisciplinary talent cultivation. Higher education institutions must prioritize the establishment of a robust and comprehensive evaluation framework that transcends conventional reliance on standardized testing. This framework should integrate diverse stakeholder perspectives, including self-assessment, peer evaluation, teacher feedback, and broader social assessments, to ensure a holistic understanding of student development. Evaluation criteria should extend beyond academic metrics to include critical psychological dimensions such as resilience, teamwork capabilities, problem-solving approaches, and emotional regulation. By combining quantitative and qualitative measures, institutions can create a more nuanced and scientific assessment system. Furthermore, the implementation of dynamic tracking mechanisms is essential for documenting students' psychological responses across varied scenarios. These

mechanisms can facilitate the creation of personalized psychological development profiles, enabling targeted and effective cultivation strategies. Transitioning from static, one-time assessments to continuous monitoring cycles will allow institutions to capture students' growth trajectories over time, particularly in psychological and emotional competencies. Feedback systems must be designed to provide timely, actionable, and personalized recommendations, empowering students to identify and address their strengths and areas for improvement [3]. For instance, in courses focusing on mental health education, instructors can employ diverse evaluation methods such as situational simulations, case studies, and reflective journaling [2]. These tasks enable students to demonstrate their coping mechanisms in simulated academic stress scenarios. Teachers can assess students across multiple dimensions, including emotional regulation, problem-solving rationality, and the depth of self-reflection, while incorporating peer evaluations to gauge teamwork effectiveness. The final assessment report should offer a comprehensive analysis of psychological attributes such as stress resilience, self-awareness, and interpersonal communication skills. This multidimensional evaluation approach not only provides an accurate snapshot of students' current psychological development but also establishes a strong foundation for personalized guidance and future growth.

4.5. Integration of social resources to foster a collaborative educational environment

In the era of advancing educational quality, institutions must establish comprehensive mechanisms to integrate social resources effectively. This involves proactive collaboration with government agencies, research institutes, enterprises, and public institutions to form robust networks that share resources and complement each other's strengths. Educators should prioritize the expansion of off-campus learning opportunities by forging stable partnerships with community organizations, cultural institutions, and non-profit groups. These collaborations can create diverse and practical training environments for students, enriching their learning experiences. Universities should also maximize the potential of family educational resources by fostering strong communication channels between schools and families. Regularly organized parent education programs and parent-child activities can transform households into essential support systems for nurturing students' positive psychological development. Additionally, institutions must harness digital technologies to establish integrated online-offline learning platforms. These platforms can seamlessly connect high-quality social educational resources with campus teaching, amplifying the effectiveness of educational outcomes. For instance, in environmental science and engineering education, educators can collaborate with local environmental protection departments, ecological restoration companies, and environmental monitoring agencies. By engaging students in fieldwork at locations such as wastewater treatment plants, waste sorting centers, and ecological reserves, they can address real-world environmental challenges. This hands-on approach enables students to develop perseverance, a sense of responsibility, and practical problem-solving skills. Participation in tasks such as river water quality monitoring, soil remediation projects, and air pollution control not only enhances their professional expertise but also fosters resilience and teamwork when navigating complex challenges. Furthermore, these experiences contribute to societal improvement while instilling a profound sense of achievement and purpose in students. Through authentic social engagement, students cultivate positive psychological attributes such as optimism, initiative, and a willingness to contribute, preparing them to thrive in both their personal and professional lives.

5. Conclusion

In conclusion, the emergence of new productive forces necessitates a heightened focus on fostering psychological resilience and adaptability among individuals, particularly university students. This shift underscores the importance of cultivating positive psychological attributes as a cornerstone for enhancing the quality of talent

development. Higher education institutions play a pivotal role in addressing these demands by implementing comprehensive strategies that encompass systematic training programs, innovative pedagogical approaches, and the integration of diverse disciplinary resources. By adopting a holistic framework, universities can ensure the alignment of educational practices with the evolving needs of society and the workforce. Such initiatives not only contribute to the balanced development of students' psychological well-being and professional competencies but also position them as adaptable and capable contributors to the advancement of modern productive forces. Looking ahead, future research should explore the long-term impacts of these educational strategies, investigate the interplay between psychological resilience and professional success, and identify scalable models for broader implementation across diverse educational contexts.

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