Suvonov Jaxongir Xusniddin o'g'li, Assistent

Namangan Engineering and Technology Institute

EXPERIENTIAL LEARNING: EDUCATION THROUGH EXPERIENCE

Abstract: *Experiential Learning is an educational approach where knowledge is gained through hands-on, practical experiences. Rooted in the philosophy that learning is most effective when directly experiencing and engaging with the subject matter, this method contrasts with traditional theoretical or lecture-based learning. It encompasses various activities like internships, field trips, workshops, and simulations. Experiential Learning emphasizes the importance of reflection, critical analysis, and application of knowledge in real-world situations, fostering deeper understanding and retention of information.*

Keywords *Experiential Learning, Hands-On Experience, Practical Knowledge, Real-World Application, Reflection, Critical Analysis, Internships, Field Trips, Workshops, Simulations, Learning Retention.*

Сувонов Жахонгир Хусниддин огли Ассистент

Наманганский инженерно-технологический институт

ЭМПИРИЧЕСКОЕ ОБУЧЕНИЕ: ОБРАЗОВАНИЕ ЧЕРЕЗ ОПЫТ

Аннотация: *Эмпирическое обучение - это образовательный подход, при котором знания приобретаются посредством практического опыта. Основанный на философии, согласно которой обучение наиболее эффективно при непосредственном восприятии предмета и вовлечении в него, этот метод контрастирует с традиционным теоретическим обучением или лекциями. Она включает в себя различные мероприятия, такие как стажировки, экскурсии на места, семинары и симуляции. Обучение на основе опыта подчеркивает важность рефлексии, критического анализа и применения знаний в реальных ситуациях, способствуя более глубокому пониманию и запоминанию информации.*

Ключевые слова: *Эмпирическое обучение, Практический опыт, Практические знания, Применение в реальных условиях, Рефлексия, Критический анализ, стажировки, поездки на места, Семинары, Симуляции, сохранение знаний.*

Experiential Learning is a dynamic and interactive educational approach that emphasizes learning through direct experience. This approach, rooted in the works of educational theorists like John Dewey, Kurt Lewin, and David Kolb, advocates that effective learning occurs when students are actively engaged in experiences relevant to their lives. By participating in real-world scenarios, students gain practical skills and knowledge, enhancing their understanding and retention of information. Experiential Learning is applicable across various disciplines and educational levels, making it a versatile and impactful teaching method.

Theoretical Foundations: Experiential Learning is based on the premise that learning is a process that occurs when individuals are engaged in direct experience and reflect on that experience. Key theorists like John Dewey emphasized the importance of interaction between education and experience.

Key Components: This approach includes four essential stages: concrete experience, reflective observation, abstract conceptualization, and active experimentation. Students first engage in an experience, then reflect on it, learn from it, and finally apply what they have learned in new situations.

Implementation in Education: Experiential Learning can be implemented through internships, field trips, role-playing, simulations, service learning, and project-based learning. These methods provide students with opportunities to apply classroom knowledge in practical settings.

Benefits and Challenges: The benefits include improved problem-solving and decision-making skills, enhanced engagement and motivation, and better

preparation for real-world challenges. Challenges include resource constraints, the need for well-planned experiences, and the requirement for skilled facilitation.

Impact on Student Outcomes: Research shows that Experiential Learning can lead to deeper understanding, improved academic performance, and greater interest in the subject matter. It also helps in developing critical thinking, collaboration, and communication skills.

Contemporary Applications: With advancements in technology, experiential learning now includes virtual simulations and online internships, expanding its reach and applicability. It is increasingly recognized as essential in preparing students for the complexities of the modern workforce.

Experiential Learning represents a significant shift from traditional education models, placing emphasis on practical, hands-on experiences. Its focus on engaging students directly with real-world scenarios enhances learning outcomes and prepares them for future challenges. While implementation can be resource-intensive, the benefits of improved engagement, skill development, and practical application of knowledge are substantial. Experiential Learning continues to evolve, integrating technology and innovative practices to meet the changing needs of education.

References

1. Kolb, D. A. (1984). Experiential Learning: Experience as the Source of Learning and Development.
2. Dewey, J. (1938). Experience and Education.
3. G Gulyamov, N Yu Sharibaev Influence of temperature on the semiconductor band gap. FIP PSE 9, 40-43, 2011
4. G Guliamov, N Yu Sharibaev. Determination of the density of surface states of the interface, the semiconductor-insulator in the MIS structure. FTP 45 (2), 178-182, 2011

5. G Gulyamov, IN Karimov, N Yu Sharibaev, U I Erkaboev. Determination of the Density of Surface States at the Semiconductor-Insulator Structures in Al-SiO2-Si and Al-SiO2-n-Si at Low Temperatures. Uzbek Journal of Physic 12 (3), 143-146, 2010
6. G Guliamov, N Yu Sharibaev. The temperature dependence of the density of surface states, determined by transient spectroscopy. Physical Engineering surface 8 (1), 53-68, 2010
7. Аъзам Абдумажидович Мамаханов, Шерзод Собиржонович Джураев, Носир Юсубжанович Шарибаев, Мухамадали Эркинжон Угли Тулкинов, Даврон Хошимжон Угли Тухтасинов. Устройство для выращивания гидропонного корма с автоматизированной системой управления. Universum: технические науки, 17-20, 2020
8. S Zaynobidinov, U Babakhodzhayev, A Nabiyev, N Yu Sharibayev. The mechanism of hole transport in photocells based on A-Si: H. International Journal of Scientific and Technology Research 9 (1), 2589-2593, 2020
9. Носиржон Юсубжанович Шарибоев, Шерзод Собиржонович Джураев, Анвар Мансуржонович Жабборов. Вейвлет-метод обработки кардиосигналов. Автоматика и программная инженерия, 37-41, 2020
10. Nosirjon Shariboev, Sherzod Juraev, Anvar Zhabborov. Wavelet method for cardio signals processing. Common Information about the Journal A&SE, 11, 2020
11. Г Г Гулямов, М Г Дадамирзаев, Н Я Шарибаев, Н М Зокиров. ЭДС, возникающая в –-переходе при воздействии сильного СВЧ поля и света. Физика и техника полупроводников 53 (3), 396-400, 2019
12. Gafur Gulyamov, Muhammadjon Gulomkodirovich Dadamirzaev, Nosir Yusupjanovich Sharibayev. EMF of Hot Charge Carriers Arising at the pn-

Junction under the Influence of the Microwave Field and Light. Journal of Electromagnetic Analysis and Applications 7 (12), 302, 2015