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Research Article

CHARACTERISTICS OF CLOUD TECHNOLOGIES IN CYBER PEDAGOGY

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ABSTRACT

This in the article pedagogy and in cyber pedagogy cloudy of technologies features, cloudy of technologies advantages, disadvantages and education to give in the process pedagogy and in cyber pedagogy differences light up given.

KEYWORDS

Pedagogy, cyber pedagogy, feature, disadvantage, advantage, difference, education, student, cloud technology.

INTRODUCTION

Cloudy In the early 1990s, computing was introduced to the Internet from being done since the most important technology is a transformation. More companies and education institutions have cloud IT infrastructure to master planning because today's work market is cloudy to count who understands the cloud based on networks work the way out practical to the experience required IT, specialists.

Cloudy count branches: theory, practice and development main network and system management concepts and cloudy technology mastery for necessary has been practical skills cover takes

Pedagogy and in cyber pedagogy cloudy technologies field learner scientists and specialists by written one how many books there is . Here it is in the field some famous books :

1. Meikang Qiu, Danda B. Rawat, Min Song by " Cloud-Based Technologies in Cyber Physical Systems (Cyber physical in systems to the cloud based on technologies)" - This is a book cloudy count and

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cyber-physics of systems applications discussion it does of technologies different in fields, including education intersection learns [1].

2. By Thirunarayanan Venkat Raman edited "Handbook of Research on Cloud-Based STEM Education for Improved Learning Outcomes (Improved education results for to the cloud based STEM education according to studies according to manual)" - This manual cloud technologies STEM (science, technology, engineering and mathematics) education how improvement about concept will give and improvement strategies offer does education results [2].
3. Li Chao's "Educational Cloud Computing: An Essential Guide to the Higher Education IT Marketing" (Telim for cloudy count : High education IT marketing for important manual)" - This is a book higher in education cloudy to count app to do directed it is cloudy technologies education conditions of integration advantages , problems and advanced experiences about in detail information will give [3].
4. Wenhao David Huang's "Teaching and Learning with Technology: Beyond Constructivism" using teaching and learning: from constructivism except)" work - modern in education digital of means role Emphasis is traditional constructivist of methods except education and education in their approaches cloudy of technologies integration learns [4].
5. Bajrektarevic by Anis H. and Ba Yu Kai edited " Cyber Education: The Future of Learning (Cyber education: of education future)" - This book cloudy computing, virtual classes and online of resources to education effect discussion and cyber technologies through education the future learning environment [5].

This books cloudy technologies pedagogy and cyber pedagogy how forming about valuable concept and prospects offer enough, teachers and to researchers education in the field digital from tools use for necessary knowledge will give[6].

1- picture . Cloudy of technologies features

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Cloud technologies offer various characteristics that make them appealing for individuals and businesses. Here are some key characteristics of cloud technologies:

1. Scalability: Cloud services can easily scale up or down based on demand, allowing users to adjust resources swiftly and efficiently.

2. Flexibility: Cloud solutions offer flexibility in terms of storage, processing power, and applications, enabling users to adapt to changing needs.

3. Cost-effective: Cloud services often follow a pay-as-you-go model, minimizing upfront costs and allowing users to pay only for the resources they use.

4. Accessibility: Cloud technologies provide access to data and applications from anywhere with an internet connection, promoting collaboration and remote work.

5. Reliability: With data stored across multiple servers, cloud services offer high reliability and data redundancy to ensure minimal downtime.

6. Security: Cloud providers invest heavily in security measures, including encryption, access controls, and regular audits, to protect data from breaches and cyber threats.

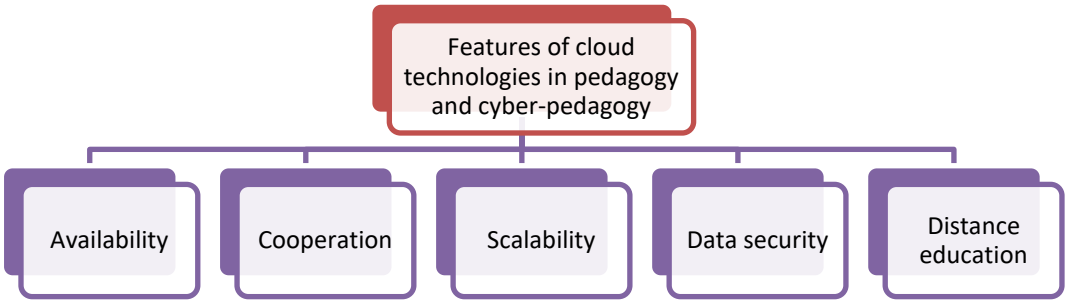
7. Automation: Cloud platforms often include automation capabilities for tasks like provisioning resources, monitoring, and scaling, streamlining operations and improving efficiency.

8. Elasticity: Cloud services can quickly adjust resources to meet changing demands, ensuring optimal performance during peak times without manual intervention.

9. Disaster Recovery: Cloud platforms typically offer built-in backup and recovery options, ensuring data can be restored in case of data loss or system failures.

10. Collaboration: Cloud technologies facilitate real-time collaboration through shared access to documents, files, and applications, enhancing teamwork and productivity.

These characteristics contribute to the popularity and success of cloud technologies in modern IT environments. Organizations leverage these features to optimize operations, reduce costs, and improve flexibility in the digital era.



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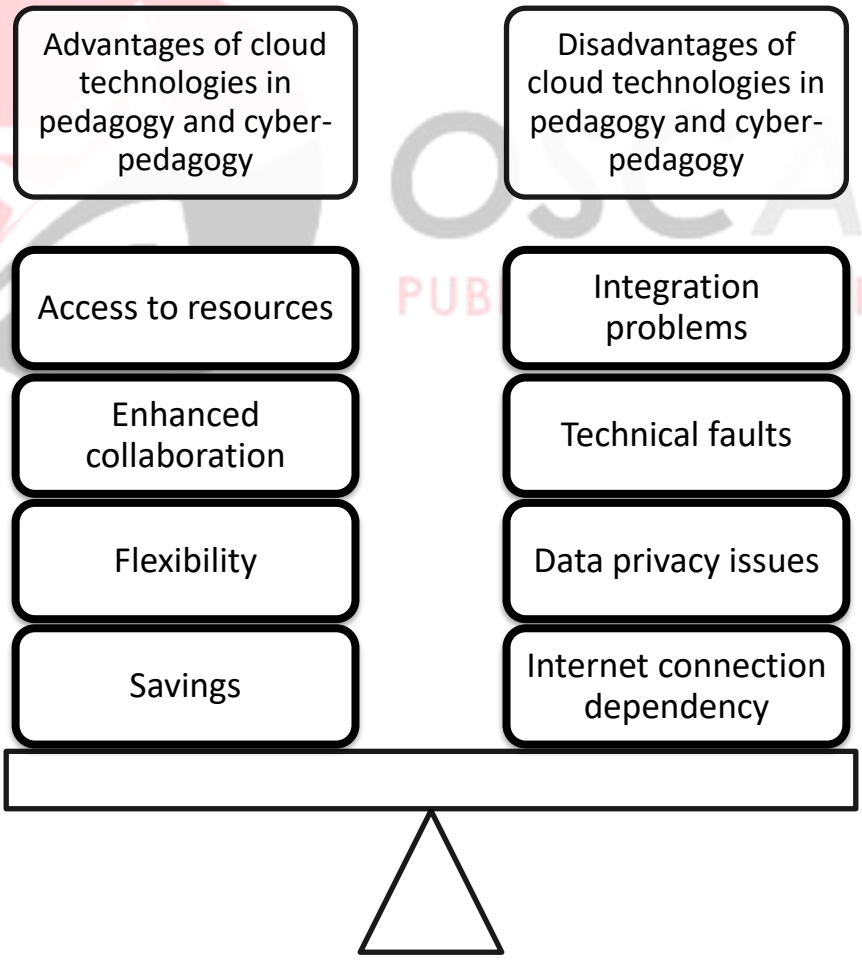
2- picture . Pedagogy and in cyber pedagogy cloudy of technologies features

Pedagogy and in cyber pedagogy cloudy of technologies Features :

1. Usage possibility : Cloud technologies education resources and tools desired from place , desired at the time comfortable use enable will give .
2. Cooperation : Students and teachers in the middle continuously cooperation provides interactive and interesting education experience develops .
3. Scalability : Cloudy platforms flexibility and economic efficiency providing education institutions from needs come came out without resources expand takes
4. Data safety : Cloud services of students thin information protection to do and confidentiality to the rules compliance to do provide for strong safety measures offer does
1. 5. Remote education : lectures , assignments and virtual classrooms for online platforms present reach through remote education makes it easier .



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3- picture. Pedagogy and in cyber pedagogy cloudy of technologies advantages and disadvantages

Let's break down the characteristics, advantages, disadvantages, and differences of cloud technologies in pedagogy and cyberpedagogy:

Characteristics of Cloud Technologies in Pedagogy and Cyberpedagogy:

1. Accessibility: Cloud technologies provide easy access to educational resources and tools from anywhere, at any time.
2. Collaboration: Enables seamless collaboration among students and educators, fostering interactive and engaging learning experiences.
3. Scalability: Cloud platforms can scale resources based on the needs of educational institutions, allowing for flexibility and cost-efficiency.
4. Data Security: Cloud services offer robust security measures to protect sensitive student data and ensure compliance with privacy regulations.
5. Remote Learning: Facilitates remote learning by providing online platforms for lectures, assignments, and virtual classrooms.

Advantages of Cloud Technologies in Pedagogy and Cyberpedagogy:

1. Cost-Effective: Reduced infrastructure costs and maintenance expenses for educational institutions.
2. Flexibility: Adaptable and customizable solutions to meet diverse teaching and learning needs.
3. Enhanced Collaboration: Promotes teamwork and group projects among students, even in virtual environments.
4. Access to Resources: Easily access educational materials, tools, and applications from any device with an internet connection.
5. Data Backup and Recovery: Automatic data backup and recovery options ensure continuity in teaching and learning activities.

Disadvantages of Cloud Technologies in Pedagogy and Cyberpedagogy:

1. Reliance on Internet Connection: Dependent on internet connectivity, which could be a limitation in areas with poor network coverage.
2. Data Privacy Concerns: Potential security breaches and privacy issues if cloud services are not properly secured.
3. Technical Glitches: Possible disruptions or technical issues that may affect the teaching and learning process.
4. Integration Challenges: Difficulty integrating cloud technologies with existing educational systems and practices.
5. Training Needs: Educators and students may require training to effectively use cloud tools and platforms.

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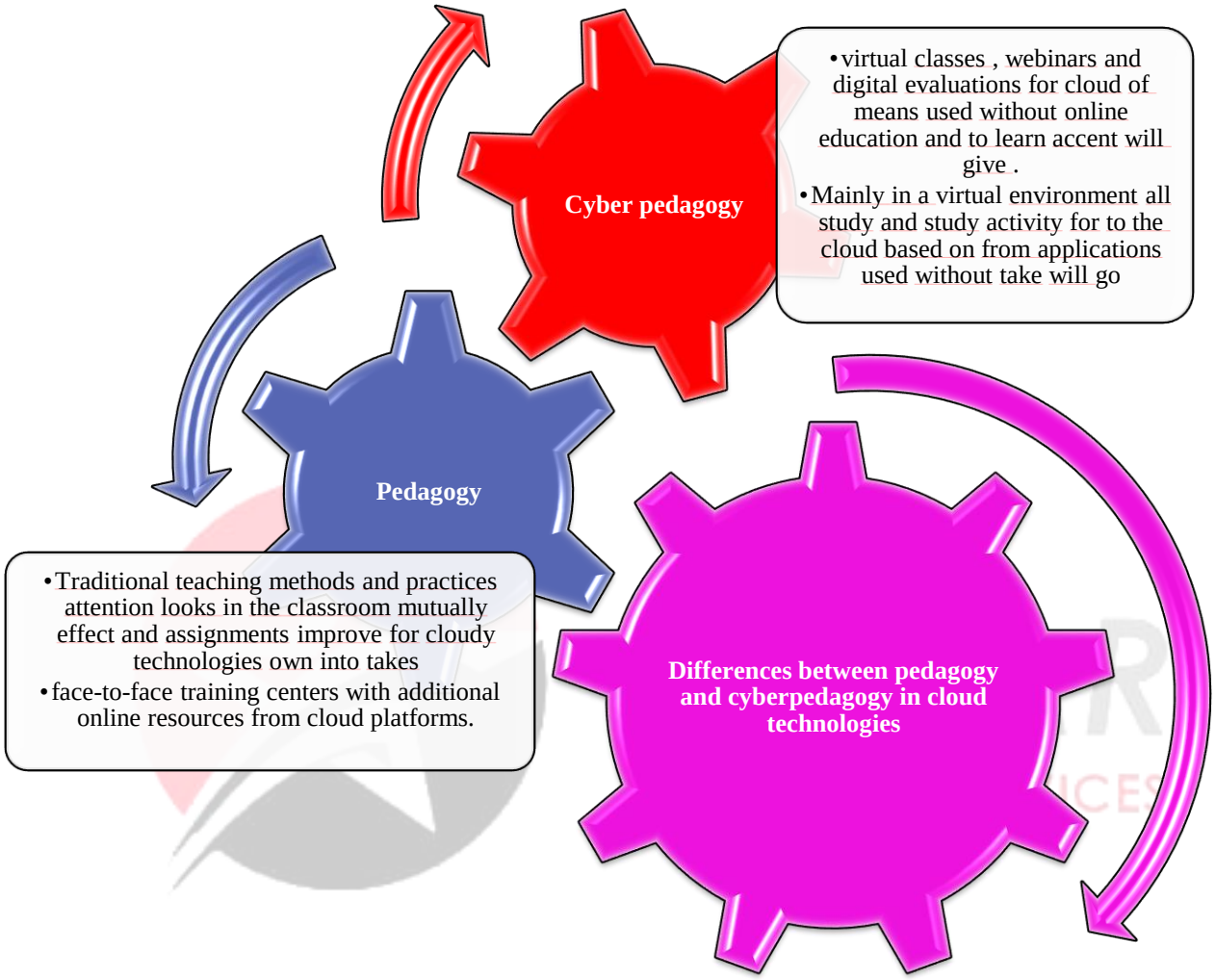

- picture . Cloudy in technologies pedagogy and cyber pedagogy between differences

Cloudy in technologies pedagogy and cyber pedagogy between differences :

Differences Between Pedagogy and Cyberpedagogy in Cloud Technologies:

1. Pedagogy: Focuses on traditional teaching methods and practices, incorporating cloud technologies to enhance classroom interactions and assignments.
2. Cyberpedagogy: Emphasizes online teaching and learning, utilizing cloud tools for virtual classrooms, webinars, and digital assessments.
3. Pedagogy: Centers on face-to-face instruction with supplementary online resources from cloud platforms.

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4. Cyberpedagogy: Primarily conducted in virtual environments using cloud-based applications for all teaching and learning activities.

By leveraging cloud technologies effectively, educators can create dynamic and engaging learning experiences for students, whether in traditional pedagogical settings or in the realm of cyberpedagogy.

REFERENCES

1. Chong Li, Meikang Qiu. Reinforcement Learning for Cyber-Physical Systems. https://doi.org/10.1201/9781351006620. New York -2019.256 p
2. Lee Chao. Handbook of Research on Cloud-Based STEM Education for Improved Learning Outcomes. University of Houston - Victoria, USA-2016. 518 p
3. Lee Chao. Cloud Computing for Teaching and Learning: Strategies for Design and Implementation. University of Houston-Victoria, USA. SCOPUS. April, 2012. Pages: 357
4. Prof. Dr. Anis Bajrektarevic, Professor and Chairperson in International Law and Global Political Studies, International Institute IFIMES, Vienna. Cyberspace: Between Legal and Security Challenges, Socio-economic Opportunities and Moral Dilemmas. https://www.thomas-schmitz-yogyakarta.id/Events/Guest-lecture_cyberspace-challenges.htm
5. Melda Kamil Ariadno; Anis H. Bajrektarevic, Twinning Europe and Asia in Cyberspace: The EU legislation, ASEAN and its transformative power, AEI Insights 5 (2019). no. 1; Anis H. Bajrektarevic; Melda Kamil Ariadno, GDPR: Humanizing cyberspace, The Jakarta Post 02.01.2019, p. 6
6. Aufzählung Right to privacy in cyberspace: special website of the OHCHR, Resolution 68/167 of the UN General Assembly on "The right to privacy in the digital age", Juliane Damen; Lena Köhler; Sean Woodard, The Human Right of Privacy in the Digital Age, 2017
7. Aufzählung Cybersecurity policy: European Council, Reform of cybersecurity in Europe, last updated 03.2019; ASEAN Declaration to Prevent and Combat Cybercrime of 13.11.2017;
8. Aufzählung Cybercrime: special websites of Europol, Interpol, Combattingcybercrime.org; Cybercrime Repository (UNODC);
9. Lennon Chang, Cybercrime and Cyber Security in ASEAN, in: Jianhong Liu; Max Travers; Lennon Chang (editors), Comparative criminology, 2017, p. 135 ff.
10. https://www.routledge.com/Cloud-Computing-Networking-Theory-Practice-and-Development/Chao/p/book/9781482254815.
11. Mukhiddinova, M. (2023). ABOUT THE PRAGMATICS OF DEACTIVE PRONOUNS IN THE KOREAN LANGUAGE. SPAST Abstracts, 2(02).
12. Mukhiddinova, M. (2021). A question about pronouns in a Korean sentence. Asian Journal of Multidimensional Research, 10(9), 208-211.
13. Dek-Khenovna, K. N., & Batirovna, M. M. (2019). To the study of the role of pronouns and pronominal words in Korean language (on elementary level teaching material). Вестник науки и образования, (19-1 (73)), 47-52.
14. Mukhiddinova, M. PRONOUNS IN COMMUNICATIVE SENTENCES IN KOREAN. ТОШКЕНТ-2021, 52.