Blended learning -An effective step in present scenario

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Introduction:

The child is quite helpless at birth. He starts learning after birth, this learning continues throughout life. When the child is born, his mind is just like a clear slate as soon as he comes in the contact with environment He starts reacting to it. And it is a process interaction of the individual and the environment in this way the behaviour of an individual is changed through direct or indirect experiences. This change in behaviour brought about by experiences commonly known as learning. Learning is a process that leads to change which occurs as a result of experience and increases the potential for improved performance and future learning.

Learning is a process by which one acquires ingests and stores or accepts information. The main characteristic of learning that it is a process of obtaining knowledge to change human behaviour through interaction practise and experiences.

Learning is the process of acquiring new understanding, common knowledge, common behaviours, skills, values attitudes and preferences. The ability to learn is processed by humans, animals and some machine. Learning encourages the ability to do something efficiently with the help of available resources so that you can reach your goals. The importance of learning is that it helps the individual to acquire the necessary skills through learning and knowledge so that he can achieve his set goals.

Learning typically involves reading textbooks attending lectures or doing research in the library or online. While seeing information and then writing it down is important, actually putting new knowledge and skills into practise can be one of the best ways to improve learning. When people learn, the gain confidence for trying new things

and stretching themselves. Continual learning contributes to higher levels of resilience and self-efficiency in completing task or taking a challenge. There are Three main laws of learning:

- Law of readiness
- Law of exercise
- Law of effect

Effective learning dependent on methods of teaching and learning, that actually involve children in their own learning guide, personal development. In 21st century There are many innovative methods of learning In Education, so blended learning is also One of the important learning methods in present scenario.

Blended learning, a dynamic educational approach seamlessly integrates traditional face to face instruction with online learning experiences. This innovative method harness is the power of technology to create personalised, interactive and engaging learning environments. Blended learning offers several advantages over traditional or fully online modes of institution, such as increased flexibility, accessibility, personalization, engagement and collaboration. This learning can also enhance student outcomes such as academic performance, satisfaction, retention and motivation. However, blended learning also poses some challenges such as technical issues, workload, communication and quality assurance. Therefore, blended learning requires careful planning and alignment of learning objectives activities, assessment and feedback.

Is blended learning good?

Blended learning is the term given to the educational practise of combining digital learning tools with more traditional classroom, face to face teaching. It is a mixture of online training and assignments which enables learners to learn when it suits them giving them more control over their learning and development. Blended learning is more effective than traditional method because learner can focus on content like new vocabulary or pronunciation. Blended learning helps students to explore technology and use different tools or techniques for learning for example: Power point, Virtual classrooms, Video lectures etc. It improves the quality of Education and information assimilation while making teaching more efficient and productive.

Nowadays, student prefer blended learning because it allows them to study in a digital environment with virtual tools that they are comfortable with and frequently use in their daily lives.

Blended learning shifts the teacher's role from knowledge provider to coach and mentor giving students permission and space to become active learners who gain knowledge directly. Let's them assume some over the learning and helps them develop self-reliance. Blended learning that uses apps, games to teach concepts, allowing students to engage in the material at their own pace. It can promote deeper learning, reduce stress and increase students' satisfaction and a teacher can become more engaged with their students.

Importance of blended learning:

- It provides a safer learning environment.
- It increases student engagement in learning process.

- Flipping the classroom improves comprehension.
- Students have more autonomy.
- Efficient use of instructor time.
- Gather Lerner data for better insights.
- People can learn via collaboration and discussion.

Blended learning model:

Blended learning is a teaching method by which online educational content is blended with traditional teaching approaches while it requires the teachers and students to be physically present. Computer mediated activities are combined to blend the learning experience for students. With the students having some control over the time, space and place of the class.

This learning is not only used for educational purposes but also used for professional training. Different models of blended learning combine various levels of content delivery and interaction via digital mediums. The main purpose of blended learning is to provide a better teaching experience. In some cases, blended learning can also be seen as a more personalised method of teaching for learning outcomes.

1. **Rotation model**: In blended learning, the rotation model is a common approach where students rotate between different learning modalities, teacher- led instruction, groupwork and independent study, within a single class. This model provides flexibility and personalised learning experiences for students while still incorporating face to face interactions and support from teachers.

2. **The face-to-face driver model**: The face-to-face driver model in blended learning prioritises in person instruction as the primary driver of the learning experience. In this model, face to face interactions with teachers serve as the main instructional component, supplemented by online resources and activities to

enhance learning outside the classroom. The face-to-face driver model aims to leverage the strengthens of traditional teaching methods while integrating technology to support and extend learning opportunities.

3. **Online lab school model**: The online lab school model in blended learning combines the benefits of online learning with hands- on, experimental learning through laboratory activities. In this model, student engage in virtual lessons and coursework online, while also participating in laboratory sessions either in- person or through virtual simulations. The online lab school model allows students to access high quality instruction remotely, while still having opportunities for practical, hands- on learning experiences typically found in in traditional school settings. This approach is particularly beneficial for science, engineering technology and mathematics subjects where laboratory work is essential for understanding concepts and developing practical skills.

4. **Enriched virtual model**: The enriched virtual model in blended learning combines online learning with face-to-face instruction in a flexible and personalised manner. In this model, the majority of instruction and coursework is delivered online, allowing students to work at their own pace and access resources from anywhere with an Internet connection. However, students also have scheduled in- person sessions with teachers for additional support, collaborative activities and assessments. This model offers the benefits of both online and traditional learning environments, allowing for a greater flexibility and individualization while still providing opportunities for direct interaction with teachers and peer. It enables students to take more ownership of their learning process while receiving guidance and support from educators when needed. Overall, the enriched virtual model promotes students' engagement, autonomy and academic achievement in a blended learning environment.

5. **Flex model**: The Flex model in blended learning offers students flexibility in how they engage with both online and face to face instruction. In this model, students have the freedom to choose when, where and how they access learning material and resources allowing them to personalise their learning experience based on their individual needs, preferences and pace. Typically, this model involves a mix of online coursework, independent study and scheduled face to face sessions with teachers or peers for support, collaboration and assessments. Students may use online platforms to access instructional content, complete assignments and interact with classmates and teachers, while having opportunities for in person instruction and guidance when necessary. This model empowers students to take greater control of their learning journey, promoting self-direction, time management and autonomy. It also allows educators to tailor instruction to meet the diverse needs and learning styles of their students. Overall, the flex model in blended learning offers a balanced approach that combines the benefits of online and traditional instruction while providing flexibility and personalization for students.

6. **Self-blend model**: The self should blend model in blended learning puts the control of learning, primarily in the hands of the students. In this model students have the freedom to choose which aspects of their learning experience will be conducted online and which will be done through traditional face to face instruction and it allows students to tailor their learning experience to their individual needs, preferences and learning styles,

providing flexibility and autonomy in the learning process. It also encourages students to take ownership of their education and develop important skills such as self-regulation, time management and decision making.

7. **A la Carle model**: The A la Carle model in blended learning, also known as the Karle model, is a framework designed to guide the integration of technology into teaching and learning. It was developed by. Prof Alan L Carle and it emphasises 4 key components:

- Access
- Adoption
- Adaptation.
- Achievement

The Karle model serves as a framework for educators and institutions to systematically plan, Implement and access the use of technology in blended learning environments, with the ultimate goal of enhancing student learning and success.

8. **Flipped classroom model**: The flipped classroom model is a popular approach in blended learning where traditional teaching methods are reversed. In a flipped classroom, students learn new concept at home through prerecorded lectures, videos or readings typically delivered via an online platform then they engage in active learning activities such as discussions, problem solving and collaborative projects during face-to-face class time. This model allows students to learn at their own pace and review materials as needed outside of class, while in class time is used for deeper understanding, application and interaction with teachers and peace. It leverages technology to provide flexibility and access to instructional material outside of the traditional classroom setting, while also maximising the effectiveness of Indiana person instruction for more interactive and engaging learning experiences.

9. **Project based learning model**: In a project-based learning model within blended learning students engage in enquiry and exploration to solve real world problems or create tangible products. Technologies often integrated into the process to facilitate research collaboration and presentation of findings or creations. Overall, blended project-based learning with online resources and face to face interactions allows for a dynamic and engaging learning experience that fosters critical thinking, collaboration and creativity.

Conclusion:

Today blended learning can refer to any combination of different methods of learning, different learning environments, different learning styles. To conclude, we can say that the blended learning provides flexibility in learning for both students and teachers and we can say that blended learning improves the efficiency and efficacy of the entire learning process and also, it makes education more accessible with traditional teaching methods, educational materials were only available during classroom hours. Some of the future directions for blended learning are: the development of blended learning theories and frameworks that can guide and inform blended learning design and research. The exploration of blended learning impact and outcomes on different levels and dimensions, such as cognitive affective, social and behavioural; The innovation of blended learning models and practices that can address the diverse and complex needs and goals of learners, educators and society And the

creation of blended learning communities and networks that can share and support banded learning experiences and practises.

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