



Article

Implementing Blended Learning Models in Teaching at Schools (Flipped Classroom Model)

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Abstract: This article informs about the effectiveness of blended learning models in teaching students. Strategies of blended learning and steps of reaching good results. The flipped-classroom model and steps to implement it in the classroom and available results of it. Many experiences of implementing flipped classroom in the teaching process and their results are reported in the article. It's benefits for students individual needs and interests are also reported.

Keywords: Blended learning, strategies and models, activate students, self -learning, flipped classroom.

1. Introduction

In order to implement blended learning in teaching, we should balance the way of teaching, over classroom teaching face-to-face, and let the students and motivate them to learn on their own, on their own pace and convenient time and place [1]. Because blended learning is the combination of face to face and online learning (Graham Ch et al 2019). Blended learning helps learners to improve learning skills as independent learning and learning in collaboration, students work in pairs or groups at school and work independently through online materials after school (Garrison and Vaughan, 2008) [2]. There are several models of blended learning, the model of flipped classroom is the one that is mix the way of traditional learning and online learning. The effectiveness of this model is introduced with experiences and examples in the article [3].

2. Methods

For organizing blended learning, there are several strategies and models as station rotation, fixed model, a la carte and flipped classroom models.

- Station rotation model works on fixed schedule, students work in groups or pairs face-to-face, learn on their own by digital learning stations.
- Fixed model lets students to work and progress independently on their own by receiving digital materials and teachers helps when it needed.
- A la carte model invites that students to take full online courses.
- Flipped classroom lets students to discuss face-to-face but learn the new materials at home via internet materials.

In order to organize the lessons effectively, there are several strategies that teachers needed to follow.

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1. For organizing this model effectively, we have to aware of the availability of devices to share materials, and the good connection to internet in stable at the lessons.
2. Obvious curriculum objectives for concrete organization of face to face or online materials.
3. Implement one model for single unit in order to build classroom routines. Mixing the model could not show the needed results.
4. Use the real-time analytics from digital practice platforms. Implementing variety of educational platforms can be good choice.
5. Clear routine and time management. Without working with regular time and routine, it is not easy to reach the aim.

We created "2 week flipped classroom unit", it includes working with parents and online homework alternatives.

First step: In the first step, teachers should create clear learning objectives and topics to work on. Then, on the chosen topics, they should record video lessons, the lessons should not too long or short, it should be around 5-8 minutes with high quality. Teachers also can find ready-made lesson with appropriate content. It is also needed that every video lesson contains check-for-understanding questions at the end, for instance in the form of short quiz. It motivates students to watch the video lessons with high enthusiasm.

Second step: In the second step, teacher should send clear expectation for home learning, and clear directions for parents in order to help their children to reach the aim. Say the parents that home learning contains to watch the video lessons and understand the theoretical point of the lesson not to work on problematic issues or tasks.

Step three: To be aware that the student has good internet connection at home, in order to watch and learn the video materials at home.

Step four: Spend the first days to be aware of routines, to check students understanding of video materials.

Step five: To activate the students at class discussion for using learned knowledge in real discussions.

Step six: At the end, organize unit assessment and gather feedback, from parents and students about the model.

Flipped classroom helps to improve students' problem solving and cooperation skills. Students' learn theoretical materials at home and work with class and work on the case studies in the classroom. In flipped classroom students be more creative and be active more in the discussions rather than traditional class (Strayer, 2007). This could be because students have understanding and enough knowledge on the new topics that is going to discuss in classroom. In this model of learning cooperation of teacher student and student – student is increased. This model has also advantaged to improve K-12 student achievement (Lo & Hew, 2017; Lee, 2018).

3. Results

The importance of implementing blended-learning at schools is that it contains the useful and best facilities of modern teaching methods and face-to-face teaching (Akbarov B). Blended learning is good technique for using in teaching because technology era students love to work on their gadgets on learning objectives [4]. (M. Avazmatova). Creating the lesson according to the given six steps can guarantee the effectiveness of the lessons by the use of blended learning method [5]. Collaboration of teacher student and parents to student show the improvement of student motivation and skills [6]. Moreover, improvement of knowledge on current fields. Six steps help the teacher and learners to work by concrete plans and it motivates students to work systematic and neatly towards the aim [7]. In our "2 week flipped classroom unit", we take into consideration the results

and student motivation and their good results in attending class discussion and projects, by the attendance to improve the collaboration and academic achievements [8].

Discussion

In order to develop the process of teaching and learning, it needs to identify and adapt modern effective teaching methods to the process (Liguori & Winkler, 2020). By the various experiences and need of students, the method of blended learning is needed to use at schools, because it can be suitable for students' needs as working online and offline in balance (Tabassum et al. 2024) [9]. On the other side, for academic teaching it is challenging to choose suitable teaching methods and models for students. The way of blended learning can overcome the challenges and keep the balance of teaching in modern way and control the students in class [11]. The model of flipped-classroom supports the learners to work on their individual learning needs (Ray & Powell, 2014). Students own the following advantages in flipped-classroom, (1) students' learning movement is organized on their own pace [12]. This helps them not to race with anyone and work on to improve own skills; (2) teachers have opportunities by completing the homework in class not at home, teacher works with students to overcome the difficulties on projects or tasks; (3) it can be easier for teachers to update the curriculum and share it to their students; (4) there is a chance to make the classroom environment creatively and increase the effectiveness of classroom time; (5) increasement in students' interests to the lesson and educational achievements; (6) supports the modern methods and techniques; (7) the organization of the model is appropriate to the 21st century teaching and learning strategies (Fulton, 2012). Of course, these merits enhance to implement the model in teaching regularly as the warranted results motivate the teacher to reach classroom aims in the effective and unusual way [13]. Nevertheless, there are some teachers who want to follow the traditional way of teaching. It can be good option sometimes if there is a reasonable practice and efficient results. But, most of the times it is vital to fix the computer technologies into the teaching and learning process, and classroom [14]. This could be because majority of computer technologies or academic learning platforms support the process of teaching and learning that traditional teaching can not help to reach that results in short time and effectively. This model of technology-based learning is also help to activate the passive students and improve their thoughts towards the process and motivate to work on themselves on their own without hesitation after the class [15].

4. Conclusion

The models of blended learning are being used for decades at schools and most authors shared their ideas and conclusions of experiments about it, and they supports to use the blended learning models at schools in order to improve the teaching process, and give the students more opportunities to learn on their own via various models. The model of flipped-classroom has majority of benefits for implementing in teaching process. It has been experimented many times and given good results. Flipped classroom helps to organize the lessons effectively and increase the motivation of students to be active in the classroom.

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