

PalArch's Journal of Archaeology
of Egypt / Egyptology

**ATTITUDE TOWARDS FLIPPED CLASSROOM AMONG B.ED.
TEACHER TRAINEES**

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Dr. A. Thangavel , Dr. S. Anbalagan , Attitude Towards Flipped Classroom Among B.Ed. Teacher Trainees , Palarch's Journal Of Archaeology Of Egypt/Egyptology 18(8), 3927-3936. ISSN 1567-214x.

Keywords: Attitude, B.Ed. Students Teacher, Flipped Classroom.

Abstract

The Normative survey study was conducted to find the attitude towards flipped classroom among B.Ed. Teacher Trainees. A sample of 200 student's teacher from in and around Madurai district in Tamil Nadu various colleges. The tool for the used present study was the Attitude towards Flipped Classroom among B.Ed. The data were analysed using statistical techniques percentage analysis, Mean, Standard Deviation's test and ANOVA. The finding of the present study pointed out there is a significant difference between male and female students in their attitude towards flipped classroom with respect to gender. While comparing male and female in their attitude towards the flipped classroom, female students (45.686) are high-level attitude than male students (M=45.349) in their attitude towards flipped classroom with respect to gender. The finding of the present study reveals that there is a significant difference between rural and urban students in their attitude towards flipped classroom with respect to locality. While comparing rural and urban in their attitude towards the flipped classroom, Urban students (45.747) are high-level attitude than rural students (M=45.44.0) in their attitude towards flipped classroom with respect to locality. The researchers look into the students' attitudes closer to the use of flipped classroom inside the all subject branch at Hebron College. As the study found out, using flipped school room is probably to provide extra treasured final results in the manner of mastering and inspire getting to know the environment. It's obvious from the outcomes of the questionnaire and interviews display that most of the people of urban students teacher have favourable views closer to the usage of a flipped study room for they had been

containing energetically with the use of flipped study room. The finding of the present study shows that there is a significant difference between married and unmarried students in their attitude towards flipped classroom with respect to marital status. While comparing married and unmarried in their attitude towards the flipped classroom, unmarried students ($M=45.699$) have high-level of attitude than married ($M=45.328$) students in their attitude towards flipped classroom with respect to marital status.

Introduction

Flipped studying is a completely unique method that allows instructors to execute a methodology or various methodologies in their lecture rooms. It way “faculty work from home and homework at college”. The flipped classroom inverts traditional teaching techniques, turning in training online outdoor of sophistication and shifting “homework” into the study room.

Flipped Learning Definition

“Flipped mastering is a pedagogical technique wherein direct coaching moves from the institution getting to know area to the individual learning area and the ensuing organization area is converted right into dynamic, interactive mastering surroundings where the educator guides students as they practice ideas and engages creativity inside the problem count number”

Flipped classrooms

Each of the sooner mentioned teaching ways makes an attempt to extend not solely the quantity of teaching that happens at school however the number and quality of learning that happens in every student. However, despite a tutor exploiting one in every of the analysis ways, students should come back removed from lectures fallaciously basic cognitive process that they acknowledge the fabric. They will not understand they are doing not perceive the fabric till later once attempting to finish the prep on their own. A budding answer to the present downside could be a fairly new teaching strategy referred to as “flipped learning.” Flipped learning attempts to create students learn an oversized portion of factual stuff reception, then come back to the category for elevating and escalating activities to try to own students retain additional info for an extended amount.

Need and significance of the study

Students rose on new media technologies area unit much less patient with filling out worksheets and paying attention to lectures (Collins & Halverson, 2009). A generation has attained a stage in which the time is now for real instructive reform that will increase scholar content material fulfilment even as teaching vital twenty-first-century competencies. Modern teachers and educators have to realize the reality and the pervasiveness of the data era in the lives of students. A Time mag article, “a way to carry Our colleges out of the 20 th Century” commented: American colleges aren't precisely stable in time, however thinking about the pace of trade in other elements of existence, our colleges have a habit of feeling like throwbacks? children pay adequate of the day as their super-grandparents as soon as did: sitting in rows, listening to instructors lecture, taking down notes via hand, and reading from textbooks which might be obsolete by the time they may be revealed. A yawning chasm (with an emphasis on yawning) separates the world within the schoolhouse from the world out of doors. (Wallis & Steptoe, 2006, p. 2). With advances in internet and communications generation, it is turning into less difficult for teachers to offer dynamic multi-media academic resources and the functionality to aid each content and evaluation between teachers and freshmen. Cloud computing and services which includes YouTube, teacher Tube, and Screencast.com make the sharing of video resources a developing get right of entry for all instructors and students. era educators forecast that at

intervals several years, tablet computers, laptop computer systems or smartphones with the wi-fi net will be carried through nearly all college students.

The current approach of the use of online movies to flip getting to know become urbanized by using Jonathan Bergmann and Aaron Sams in woodland Park, Colorado in 2007 (Bergmann, 2011). Bergmann and Sams have been searching for a way to offer lectures to their students who ignored training because of travel for athletics or sports. Jon Bergmann remembers: in the spring of 2007 Aaron changed into thumbing through a generation magazine and showed Maine a bit concerning a few package deal so one can document a PowerPoint slideshow collectively with voice and any factors, after which it renewed the recording into a video file that could be without difficulty circulated on-line. As we incline to say the potential of such p.c. up we have a predisposition to complete this may be the handiest manner for our college students international health employer inexplicable grouping to no longer pass over out on studying. This has created a new attitude toward education. In early 2010, an expert getting to know network became created for educators inquiring approximately the flipped version. As of may also 2013, the community has over 16,000 participants global (Overmyer, 2013). This community affords each pedagogical and satisfactory-practice discussions, as well as a pragmatic guide on technology and implementation. However, empirical research is simply starting to be conducted to set up if any of the claims are supported with better scholar achievement.

Statement of the Problem

Investigator conducted a study on "Attitude towards flipped classroom among B.Ed. Teacher Trainees"

Operational Definitions of Key Terms

Attitude: refers to a predisposition or an inclination to reply definitely or negatively in the direction of a certain idea, item, individual, or scenario.

Flipped Classroom: The Flipped lecture room is a contemporary method wherein the instructor presents the content material of the concern for the students in several forms along with recorded lectures, movies, and digital readings so that scholars can evaluate such substances and recognize the statistics before attending the classroom. in the lecture room, the instructor starts imparting possibilities to discuss, evaluate, and examine such facts. Then, students start running in corporations or for my part to finish numerous activities or tasks in the classroom.

B.Ed. Teacher Trainees: Those who are pursuing a Bachelor of Education (after graduation 10+2+3) are called B. Ed Trainees. In the present study, First Year B. Ed Trainees were selected from colleges of Education in Madurai district.

Objectives

1. To study the attitude towards flipped class among B.Ed. Teacher Trainees.
2. To compare the B.Ed. student's teacher in their Digital library Attitude with respect to a) gender b) locality c) year of students d) degree e) marital status

Hypothesis

1. There is no significant difference between B.Ed. student's teacher in their Digital library Attitude with respect to a) gender b) locality c) year of students d) degree e) marital status

Review of related literature

Lee and Lina(2021)done an exam on Exploring freshmen' Attitudes toward era-extra ideal Flipped Language education. The remark shows that well-designed obligations are critical, and that instructor scaffolding is wanted to guide university students in studying course content. The look at contributes a brand new model of flipped coaching that effectively facilitated L2 development.

Dianati, Seb et al., (2020) performed a look at pupil Perceptions of Technological equipment for Flipped preparation: The Case of Padlet, Kahoot! and Cirrus, Technological equipment utilized in coaching and getting to know have been pronounced to influence their satisfaction, engagement and they are persisted attempt in learning (Roach, 2014). Those gear consist of a collaborative canvas device ("Padlet"), a stay polling platform ("Kahoot!") and an annotation tool ("Cirrus"). Outcomes from consciousness institution interviews display that maximum of the scholars had wonderful perceptions of the three technological equipment centred on this have a look. The outcomes are discussed in terms of the position of technological gear in flipped getting to know, and implications for technologically more suitable flipped education

Webb, Marie et al., (2020) examined the consequences of Flipped lecture rooms on Learner Attitudes in the course of generation-stepped forward Language gaining knowledge. This takes a look at carried out an experimental design with a blended strategies approach for statistics collection. Effects showed that the USA experimental corporation showed a statistically massive difference in all self-said attitudes inside the use of technology for language getting to know additional time. Among businesses, statistical analyses placed flipped classrooms skilled a statistically big precise change in self-suggested attitudes on instrumentality, virtual literacy, and tension. Common, university students within the American and Columbian contexts can also have tons less anxiety about the usage of technology for language reading in a flipped study room, and the flipped school room also can affect college students' attitudes toward generation in Columbia, Macau, and the USA.

Zainuddin, Zamzami et al., (2016)completed an examination on Malaysian students' Perceptions of the Flipped schoolroom. The motive of this has a examine changed into to assess a class in the University of Malaya in which flipped studying comes to be applied and to have a take a look at university students' perceptions and feedback in the path of flipped look at the room. The outcomes indicated that maximum college students had fine perceptions closer to the use of flipped lecture room and most of them might suggest flipped getting to know for other guides and distinctive college students. regarding college students' feedback, a maximum of them recommended that flipped video furnished at the Spectrum internet web page have to become greater engaging and shorter, and ought to be located internally in an actual context.

Jeong, Jin Su et al., (2016)performed a take a look at college students' Perceptions and feelings toward getting to know each in a Flipped general era study room. Recently, the inverted education methodologies are gaining attention in better educations with the useful resource of saying that flipping the study room engages more successfully university students with the getting to know the system. The consequences show that the scholars have the overall perceptions of a flipped classroom setting. Especially, over 80% of them taken into consideration that the route becomes a precious gaining knowledge of revel. Further, they placed this direction greater interactive and were willing to have extra courses following a flipped model. In keeping with the scholars' emotions closer to a flipped study room path, very nice scores have been given to the tremendous feelings, being a laugh and enthusiastic alongside key-word frequency take a look at.

Variables of the Study

The observe has been designed with the following variables:

Dependent Variables

Attitude towards Flipped Classroom

Independent Variables

- | | | |
|------------------------|---|---|
| 1. Sex | - | Male / Female |
| 2. Locality | - | Rural / Urban. |
| 3. Marital status | - | Married/Unmarried |
| 4. Year | - | First/Second |
| 5. Pedagogy of Subject | - | Tamil/English/Math/Physical Science/
Bio-Science/Computer Science/
Commerce/History |

Methodology-In-Brief

Design : Descriptive

Method : Normative

Technique : Survey

Sample

Tool for present study

The questionnaire becomes superior making use of the researchers thru the usage of the literature evaluation which changed into conducted to decide the advantages of using flipped schoolroom. After the literature assessment, a ten-object questionnaire handy for the use of flipped school room modified into superior through the usage of the researchers. The primary segment of the Questionnaire has become about the demographic facts. the second segment contained gadgets about attitudes closer to the usage of the flipped classroom. The Likert scale has become used inside the questionnaire to indicate the diploma of warfare of phrases and settlement from 1-five which had been: Strongly Disagree(SD), Disagree(D), neutral(N), Agree(A), and Strongly Agree(SA). The interviews have been administered to expose the general attitudes of the scholars inside the path of the advantages, troubles, and answers of the flipped study room.

Population

The population for the study consists of all B.Ed. students teacher in Madurai district.

Sample

The investigator has used a stratified random sampling technique. Out of all B.Ed. college Madurai district, the investigator decided on randomly from Madurai. 200 B.Ed. students' instructor is randomly determined from the Madurai district.

Data Analysis Procedure

That is a quantitative qualitative take a look at. Quantitative statistics changed into analyzed statistically through the usage of the SPSS program (Statistical package deal for the Social technological know-how) descriptive analyses (frequency, percentage, approach and well-known deviation) were run. For the interview questions, content evaluation turned into hired and mentioned qualitatively.

Null Hypothesis: 2

There is no significant B.Ed. student's teacher in their Digital library Attitude with respect to a) gender b) locality c) year of students d) degree e) marital status

Table 1.1

Variable	Sub-Variable	Number	Mean	S.D	t-value	Remarks
Attitude towards flipped classroom	Male	63	45.349	.9531	2.323	S
	Female	137	45.686	.9530		
	Rural	109	45.440	.8653	2.266	S
	Urban	91	45.747	1.0498		
	First year	76	45.447	.9437	1.529	S
	Second Year	124	45.661	.9702		
	Married	64	45.328	.9095	2.410	S
	Unmarried	136	45.699	.9685		

The calculated 't' value (2.323) is greater than the table value (1.96) at 5% level of significance. Hence the null hypothesis, "There is no significant difference between male and female students in their attitude towards flipped classroom with respected to gender" is rejected. Hence there is a significant difference between male and female students in their attitude towards flipped classroom with respect to gender. While comparing male and female in their attitude towards the flipped classroom, female students (45.686) are high-level attitude than male students (M=45.349) in their attitude towards flipped classroom with respect to gender.

The calculated 't' value (2.266) is greater than the table value (1.96) at 5% level of significance. Hence the null hypothesis, "There is no significant difference between rural and urban students in their attitude towards flipped classroom with respected to the locality" is rejected. Hence there is a significant difference between rural and urban students in their attitude towards flipped classroom with respect to locality. While comparing rural and urban in their attitude towards the flipped classroom, Urban students (45.747) are high-level attitude than rural students (M=45.440) in their attitude towards flipped classroom with respect to locality.

The calculated 't' value (1.529) is lesser than the table value (1.96) at 5% level of significance. Hence the null hypothesis, "There is no significant difference between first-year and second-year students in their attitude towards flipped classroom with respected to the year of study" is accepted. There is no significant difference between first-year and second-year students in their attitude towards flipped classroom with respect to the year of study.

The calculated 't' value (2.410) is greater than the table value (1.96) at 5% level of significance. Hence the null hypothesis, "There is no significant difference between married and unmarried students in their attitude towards flipped classroom with respected to marital status" is rejected. Hence there is a significant difference between married and unmarried students in their attitude towards flipped classroom with respect to marital status. While comparing married and unmarried in their attitude towards the flipped classroom, unmarried students (M=45.699) have high-level of attitude than married (M=45.328) students in their attitude towards flipped classroom with respect to marital status.

Fig. 1.1 Mean Value of Demographic Variables

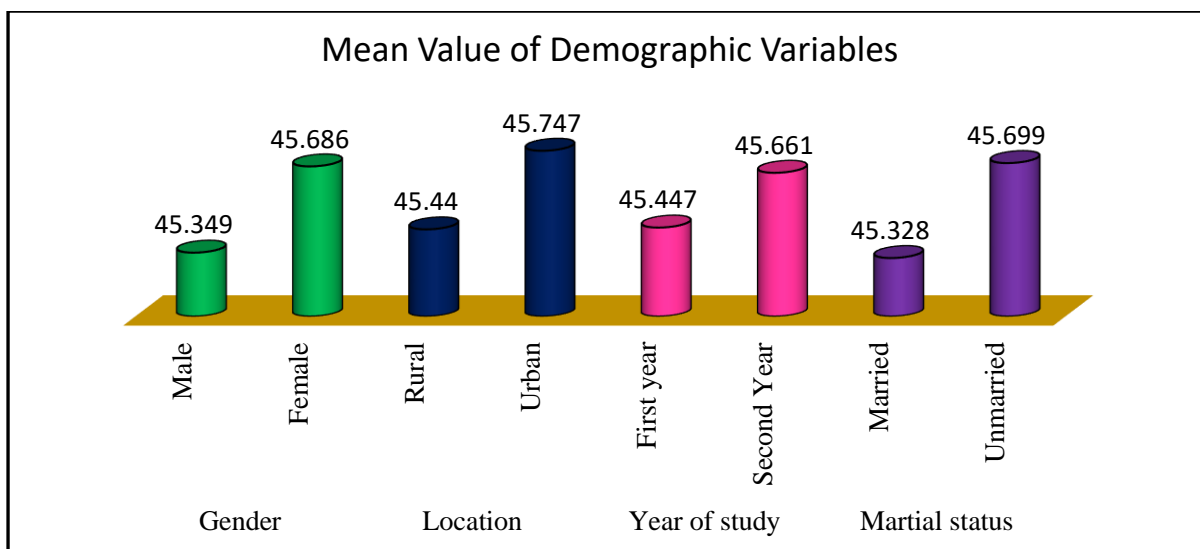


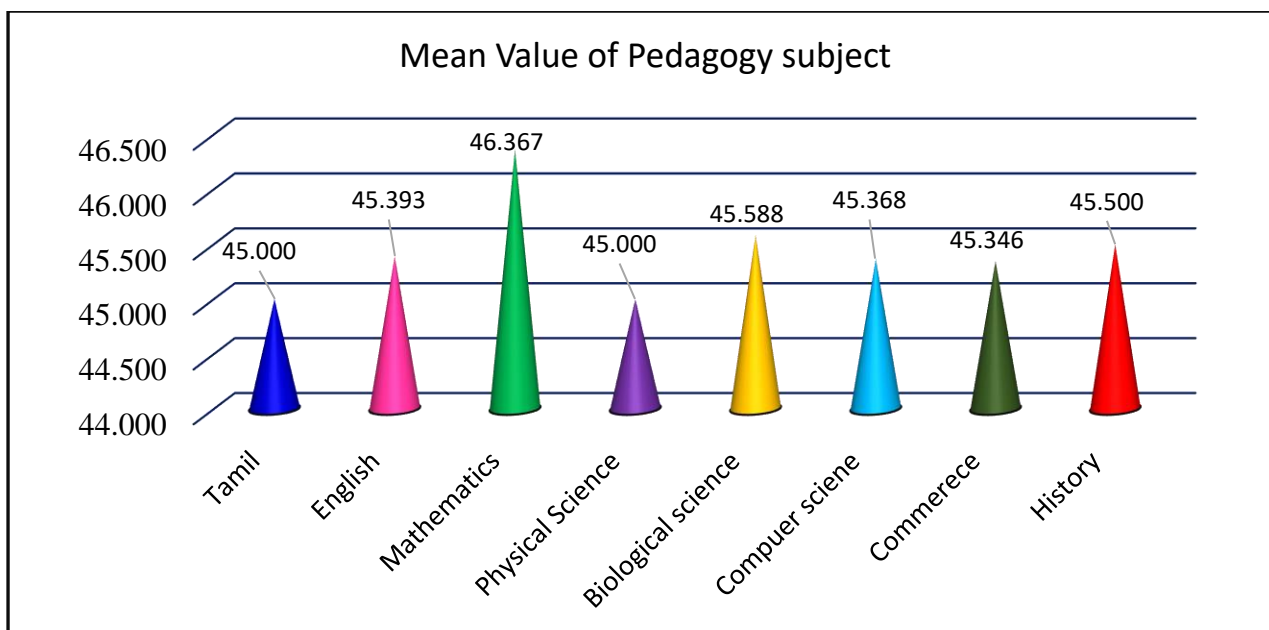
Table: 1.2

Sources of variation	Sum of Squares	Degrees of freedom	Mean square variance	Calculated 'F' value	Table value at 5% level	Remarks at 5% level
Between	46.230	7	6.604	9.156	3.04	S
With in	138.490	192	.721			

(At 5% level of significance the table value of "F" is 3.03)

The calculated 'F' value (9.156) is greater than the table value (3.04) at 5% level of significance. Hence the null hypothesis, "There is no significant difference in Tamil, English, Mathematics, Physical science, Biological science, Computer Science. Commerce and history in their attitude towards flipped classroom with respect to Pedagogy." is rejected. Hence there is a significant difference in Tamil, English, Mathematics, Physical science, Biological science, Computer Science. Commerce and history in their attitude towards flipped classroom with respect to Pedagogy. When comparing this pedagogy subject, Mathematics students have a higher level attitude than the other pedagogy subjects in their attitude towards the Flipped classroom.

Fig. 4.2 Mean Value of Pedagogy Subject



Finding

1. There is no significant difference between male and female students in their attitude towards flipped classroom with respect to gender
2. There is no significant difference between rural and urban students in their attitude towards flipped classroom with respect to the locality
3. There is no significant difference between first-year and second-year students in their attitude towards flipped classroom with respect to a year of study
4. There is no significant difference between married and unmarried students in their attitude towards flipped classroom with respect to marital status
5. There is no significant difference in Tamil, English, Mathematics, Physical science, Biological science, Computer Science, Commerce and history in their attitude towards flipped classroom with respect to Pedagogy of the subject.

Interpretation and discussion

The finding of the present look pointed out there is an extensive difference among male and lady students of their mindset in the direction of flipped lecture room with recognize to gender. while evaluating male and lady in their mindset closer to the flipped school room, lady college students (45.686) are excessive-degree attitude than male college students ($M=45.349$) of their attitude closer to the flipped classroom with recognize to gender. most of the female scholar's teachers held a wonderful opinion closer to using flipped classrooms. these findings were much like the belief of some preceding critiques of flipped lecture room studies. This locating is supported by the finding of, Johnson (2013), Al Jaser (2017), Sirakaya and Ozdemir (2018), and Strohmyer (2016) assert that using flipped classrooms in language studying provides effective thoughts and advantages that inspire students to emerge as self-directed freshmen.

The finding of the present study reveals that there is a significant difference between rural and urban students in their attitude towards flipped classroom with respect to locality. While comparing rural and urban in their attitude towards the flipped classroom, Urban students (45.747) are high-level attitude than rural students ($M=45.44.0$) in their attitude towards flipped classroom with respect to locality. The researchers look into the students' attitudes closer to the use of flipped classroom inside the all subject branch at Hebron college. As the study found out, using flipped school room is probably to provide extra treasured final results in the manner of mastering and

inspire getting to know the environment. It's obvious from the outcomes of the questionnaire and interviews display that most of the people of urban students teacher have favourable views closer to the usage of flipped study room for they had been containing energetically with use of flipped study room. . A review of the previous studies indicated that these results agree with the results of Khan, Ramzan (2018) Cilli-Turner, Emily(2015), Özpınar, Ilknur; (2016) Bhagat, Kaushal Kumar(2016) Nielson, Burke, Alison S(2017) Perpetua Lynne(2018) Guo, Jianpeng(2019)Zainuddin, Zamzami(2019)

The finding of the present study shows that there is a significant difference between married and unmarried students in their attitude towards flipped classroom with respect to marital status. While comparing married and unmarried in their attitude towards the flipped classroom, unmarried students ($M=45.699$) have high-level of attitude than married ($M=45.328$) students in their attitude towards flipped classroom with respect to marital status. This is a nice exchange in mindset towards a greater democratic lecture room while flipping the classroom. This reality is likewise predicted from earlier research both in (Love, Hodge, Grandgenett, & fast, 2013) and (Brunsell&Horejsi, 2013in Sahin, Cavlazoglu, &Yunus, 2014).

The finding of the present study shows that there is a significant difference in Tamil, English, Mathematics, Physical science, Biological science, Computer Science. Commerce and history in their attitude towards flipped classroom with respect to Pedagogy. When comparing this pedagogy subject, Mathematics students have a higher level attitude than the other pedagogy subjects in their attitude towards the Flipped classroom. . If they were all deceived by flipped classroom, it would be no bigger difference in their attitudes. The flipped classroom teaching method is more effective in the academic achievement of children and the creation of a better learningenvironment in schools. This could have been the reason for the significance. The results of the research are in confirmative with the study of Yang, Chi Cheung (2017), Larkin, Daniel J.Weber (2018) Cagande, Jeffrey Lloyd L (2018) Bhagat, KaushalKumar;(2016).

Conclusion

Attitude closer to of the flipped school room in the gaining knowledge of process among B.Ed. students instructors Universities and teachers may additionally locate the consequences of this paper. It is to stand very useful as it will assistance they decorate their expertise of the use of the flipped study room inside the studying method. For this reason, it could help them shape their knowledge for effective use of flipped school rooms. The researchers propose that lecturers have to offer a possibility for college kids to invite questions and/or clarify records contained in direction substances. In addition, they should provide formative evaluation possibilities for college students to apprehend what they do and do no longer understand due to the fact changing the rules will cause anxiety among many college students who can also themselves to need to be reeducated on how one is an achievement in flipped classrooms.

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