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INFLUENCE OF DISTANCE LEARNERS' DEMOGRAPHIC VARIABLES ON MOTIVATION AND PERFORMANCE IN FLIPPED CLASSROOM

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Abstract:

This study was carried out to investigate the influence of demographic variables of distance learners on their motivation to learn and perform in a flipped classroom. The study employed a survey research method. The sample for the study consisted of three hundred (300) distance learners who were selected from two distance learning centres. The centers were selected using a purposive sampling procedure because the two distance learning centers have deployed flipped learning mode. A questionnaire 4-point Likert scale questionnaire tagged: Flipped Classroom Motivation and Perception Questionnaire (FCMAPQ) was used in data collection. The results showed that only the sex variable (T=2.487, p<0.05) significantly contributed to the motivation of the learners in the flipped classroom. Results further showed that demographic variables of sex, work status, age and marital status (F=.15, p>0.05) have no influence on the performance of distance learners in the flipped classroom. The study concluded that though the demographic variable has no influence on the motivation and performance of distance learners, it is rather a plausible innovation in distance learning.

Keywords: flipped classroom, motivation, performance, correspondence, southwestern universities, Nigeria

1. Introduction

The programmes in the higher institutions' Distance Learning Centres had been through correspondence or Part-time mode. Most of the students who combine work and schooling at the same time are expected to come down every weekend for lectures.

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During these weekend visits, the mode of instruction is usually face-to-face. Literature shows that Traditional Correspondence/Distance Education has not always produced anticipated learning outcomes. Amanda (2016) asserts that "traditional methods of teaching are teacher-centered and are not enriched with the new trends of innovative skills to reinforce learning and intellectual engagement with learning materials". Makis (2012) in his study on the traditional classroom observed that students who have to travel down to school for face-to-face lessons come into the classes a few minutes after class has started. The introduction to the lessons is missed, and so also the interactive questions and discussions that come up when lessons commence, most of the time students would have to rely on their friends or classmates for truncated information.

Students who learn from the traditional classroom may not have prior knowledge of the topics /materials before the class, rather there is too much cognitive load in the classroom which lowers the performance of students and affects the learning process and acquisition of knowledge. Without much consideration for the assimilation level of the student, each receives the same amount of information at the same pace not minding that students have different desires and would prefer to work differently at their own speed. Students' attention decreases quickly when the pace of the lectures does not meet their needs. Extensive information is passed in a short period; most times students are weighed down with contents and materials not relevant enough to bring out the appropriate attitude needed for learning. Students usually perform well at lower-order cognitive tasks such as memorizing as against the higher cognitive tasks of knowledge construction, the ability to recall, perform and complete tasks, and the ability to critically analyze and apply their discoveries to new situations which the flipped classroom promotes. Most of all the flipped mode of learning makes the students digital literates, which is expected of a 21st-century graduate.

The flipped classroom with its use of technology enables learners to access learning materials anytime, anywhere at their own pace thereby freeing up the classroom for in-class interactive, collaborative and problem-solving activities. Despite this, very few distance learning centres in Nigeria are adopting the flipped learning model as a mode of instruction. It is one of the few pedagogical innovations that are yet to receive considerable attention and interest in Nigerian educational circles.

Distance learning students are dispersed from their instructors and peers but the incorporation of technology bridges the gap and allows students who are geographically dispersed to interact with peers, facilitators and learning materials in and outside the classroom. Distance learners are mostly engaged in self-directed learning. Knowles (1984) described self-directed learning as a situation where learners take responsibility to learn on their own instead of waiting to learn at the feet of their instructors. With this, students learn with more purpose and greater motivation, which is in tune with the natural processes of psychological growth and development. Distance Learning makes education accessible to many students in the world and at different socioeconomic levels, by extension. Allen and Seaman (2017) agreed that distance education has become increasingly common in many universities worldwide.

Many of the Distance Learning Centres in Nigeria were created to address the unavailability of spaces and facilities that surpasses the percentage of students seeking higher education. There are also many working class who are desirous of acquiring a university education but cannot afford to leave their jobs. Distance education provides the opportunity for such individuals to achieve their aims. Johari (2020) stated that the demand of jobs and workplaces coupled with everyday life responsibilities could be stressful. This work-induced stress could be overcome by enrolling in a distance learning programme.

The emergence and use of new technologies in our day-to-day activities have a great impact on our socio-economic activities and entire life. The geographical barriers created by the distance of students all over the world are closed by these tools. The tools of distance learning include Videoconferencing, Podcasts, Discussion forums, Slideshare and Web 2.0 Technologies such as Gamification and Social Networks (e.g WhatsApp, Twitter and Facebook) to promote the sharing of knowledge and collaboration among the students and instructor(s). The motivation, performance and achievements of distance learning students have been affected by the accelerated emergence of these various learning tools (Owante, Afolabi & Akanwa, 2017).

Students' motivation to learn increases when there is a purpose aligned with the task given or when they see value in what they are learning. These could happen when learning is related to real-life experience. It is therefore important to state that demographic variables could activate motivation. No matter how effective and interesting the learning strategies are, learning might not take place when students are not motivated.

2. Objectives of the Study

The specific objectives of the study are to:

- a) examine the influence of demographic variables (sex, work status, marital status, age) on distance learners' motivation in the flipped classroom; and
- b) find out the influence of demographic variables (sex, work status, marital status, age) on students' performance in the flipped classroom.

2.1 Hypotheses of the Study

The following hypotheses were set for the study.

Ho₁: demographic variables (sex, work status, marital status, age) do not have a significant influence on distance learners' motivation in a flipped classroom.

Ho₂: demographic variables (sex, work status, marital status, age) do not have a significant influence on distance learners' performance in a flipped classroom.

3. Review of Literature

A study carried out by Momanyi & Simiyu (2015) on student motivation and demographic variables, using 276 students revealed that there is a relationship between academic performance and motivation. However, the study found that age had no significant effect on the motivation and perception of the students. The higher score for motivation by students aged between 15 to 21 years did not differ significantly as compared to the other age brackets. All the students could be said to have the same level of motivation. The study also found that the relationship between motivation and academic performance appears to strengthen as students' progress in age. Students with high levels of motivation.

Elian & Hamaidi (2018) studied the effect of flipped classrooms in teaching the computer curriculum on self-learning skills. He selected a sample of 26 female students who learned through applying flipped classrooms to learn skills of computer courses at home. The results showed growing and increasing skills of self-learning among female students in the flipped classroom. In addition, they showed that flipped classroom strategy contributed to taking into account individual differences, learning according to their abilities, and encouraging bearing responsibility. The study recommended applying flipped classroom strategy in teaching some courses, and training teachers to implement flipped classrooms into the teaching and learning processes. Hossain & Tarmizi (2012) reported that the performance of males and females was highly improved in mathematics. However, the performance of female students is higher than that of male students after the treatment. Gambari (2018) reported that sex did not influence students' performance in individualized and cooperative learning but that males performed better than females in competitive instructional strategy. Gambari further reported that there was no significant difference in the performance of male and female undergraduates taught with blended learning, similarly, no significant difference was found in the performance of males and females exposed to the e-learning mode of instruction. In addition, Saleh (2016) in using flipped classroom approach to teach computer programming found no significant difference in terms of achievement between male and female students.

Amuda, Bulus & Joseph (2016) investigated marital status and age as predictors of students' performance in the Northeastern states of Nigeria. The study sought to determine marital status as a significant predictor of academic performance of NCE students in Colleges of Education in Northeastern states, Nigeria. The results showed that the students with a distinction rate (66.7%) were higher than those who failed (33.3%). Marital status and age did not significantly predict students' achievement in Colleges of Education in the Northeastern states of Nigeria. It was also recommended that adequate attention should be given to the marital status and age differences in academic performance in terms of group work, assignments and other academic activities.

Poktori (2013) conducted a study on married women who are studying at higher institutions in Nigeria through blended learning. A mixed research method was used. Focus group conversations and interviews were used to gather qualitative data while questionnaires and academic results were used to gather quantitative data. The study reveals that the academic performance of married women differs from single women. However, some of the married women were satisfied with their academic performance while others were not. They blamed their performance on several factors including marital status, and cultural practices. This finding is consistent with the reports of Burke and Weir (1976) which found a significant relationship between the influence of marriage and academic performance.

Flipped classroom positively affects students' academic achievement (Aşıksoy & Özdamlı, 2016). In their study, students perceived flipped classrooms as an interesting learning experience and the performance of female students was better than male students. The flipped classroom has more influence on females in regards to taking responsibility for their learning and motivation than on males (Kenna, 2014; Aşıksoy & Özdamlı, 2016). Lee and Liu (2016) conducted a study to assess the impact of flipped learning on students' performance; the results showed that there are no statistically significant differences in students' achievement based on gender variables. Another study conducted by Gross, Pietri, Anderson, Moyano-Camihort and Graham (2015) stated that students observed that their scores increased by (12%) through the flipped learning strategy, and it is beneficial for students with low educational performance and for females respectively.

Aljaradeh (2019) examined the male and female students' perceptions of the flipped learning system, taking four private universities in the Northern Province of Jordan as the sample of the study. In his case study on the perception of female and male students of the flipped classroom in Jordan, the study showed that the students' perception of the mode of instruction was high. The study recommended the necessity of using flipped classrooms due to their effectiveness in developing students' understanding and in motivating them to become active instead of passive participants in the classroom.

Beard & Langlas (2018) found that marital status might have negative outcomes on college students' academic performance as they perform marital roles with schooling in the United States. Yess (1981) revealed the positive influence of marriage on the performance of students in their academic activities. Negy (2003) found that some married students in college face more challenges than non-married students, which could potentially hinder academic performance in terms of combining jobs with schooling, travelling to campus when necessary and taking care of the home and children. Stern (1998) in his research on the experience of women combining multiple roles and graduate training in college found out that married men performed better in academic activities than single men but married women did not do worse than single women did in terms of students' outcome. Price (2006) study on marriage and students' outcomes provided some support that marriage may be beneficial for academic performance but there is more problem for men than women.

Amuda, Bulus & Joseph (2016) found a low correlation of persistence with age, marital status and desires of all of the demographic variables and educational levels. Eyer's (1993) study showed no significant relationship between examination scores and marital status for baccalaureate nursing students. Fontaine (1996) indicated that marital status is a predictor that older adults take full responsibility for their own learning activities regularly. Age as it increases usually affects various developmental and psychological changes and gradually manifests in every area of human performance. It is often believed that adult students being more highly motivated and experienced should perform better. Durr (1992) reported that there is no significant relationship between age and academic achievement; this means that age difference is not a determinant of academic achievement.

The hiring of students into paid jobs does not seem to operate as a discerning factor between working and non-working students but Katsikas & Panagiotidis (2010) in their study on an approach to the quality determinant of university studies in Greece observed that working students take longer time in completing tasks and responding to discussions online.

In conclusion, this review has revealed that there are though different opinions regarding the influence of demographic variables (sex, age, marital status etc.) on the perception, academic performance and motivation of students. There is however a dearth of recent views on distance learning students, especially from Nigeria.

4. Methods

The research design used in this study was a survey. The sample included three hundred (300) distance-learning students, whose selection was based on an accidental sampling technique. They were polled from two distance learning centres in southwestern Nigeria where flipped classroom was used as a mode of instruction. Three distance learning programmes (Nursing Science, Management and Accounting and Economics) were purposively selected because the three programmes cut across the two Distance Learning Centres used. Data was collected using a questionnaire tagged 'Flipped Classroom Motivation and Perception Questionnaire' (FCMAPQ). FCMAPQ was an adapted, 4-point Likert scale template in closed-ended statements. The content and construct validity of the instrument were carried out. In determining the reliability of the instrument, the split-half method was adopted. Analysis of the data using Cronbach alpha produced r= 0.85. Thus, the instrument was considered reliable.

5. Results and Discussion

5.1 Learners' Motivation in Flipped Classroom

Demographic variables (sex, work status, marital status, age) do not have a significant contribution to distance learners' motivation in a flipped classroom.

Division		Frequency		
Level	Second year	100	33.3	
	Third year	12	4.0	
	Fourth year	31	10.3	
	Fifth year	157	52.3	
Place of residence	On-campus	6	2.0	
	Off-campus	291	98.0	
Work status	Full-time	183	61.8	
	Part-time	80	27.0	
	None	33	11.1	
Age	15 - 21	23	7.7	
-	22 - 30	126	42.0	
	31 - 45	125	41.7	
	45 - 55	23	7.7	
	Above 55	3	1.0	
Sex	Female	233	77.7	
	Male	67	22.3	
Marital status	Married	107	37.8	
	Single	176	62.2	

N=300.

Table 1 presents the demographic distribution of participants in the study. Three hundred students at the centres selected across two Distance Learning Centres in southwestern Nigeria participated in the study. 33.3% of the participants were in the second year of their study, 4.0% were in the third year, 10.3% were in the fourth year while 52.3% of the participants were in the fifth year. Table 1 also showed that 2.0% of the participants resided on the campus while the remaining 98.0% lived outside the campus. This was a result of the mode of learning which is 'distance' in nature, wherein learners are scattered all over and can access learning materials from their geographical location without many hitches. 61.8% were in full-time employment, 27.0% were in parttime employment while 11.1% had no job. This would also attest to the fact that distance education is best suited for the working class, which is further attested to by the statistical distribution by age. The age range of the participants was 7.7% were with the age range of 15 – 21, 42.0% has a range of 22 – 30 years, 41.7% had an age range of 31 – 45 years, 7.7% with 45 – 55 years while 1.0% were above 55 years. 77.7% were female and 22.3% were male. 37.8% of the participants were married while 62.2% of the participants were single.

Table 2 shows the regression analysis of the contribution of each of the demographic variables on distance learners' motivation in a flipped classroom. It shows that sex contributed 14.8% to the students' motivation T=2.487, p<0.05. Work status contributed 7.1% T=1.172, p>0.05. Age contributed 7.5% T=1.257, p>0.05 and marital status contributed 6.4% T=1.073, p>0.05. This implies that it is only the sex of the distance learners that significantly contributed to the motivation of the learners in the flipped classroom.

Table 2: Linear regression analysis of the contribution of the demographic variable (sex, work status, marital status, age) to the students' motivation in the flipped classroom

				р	Partial Correlation	Collinearity Statistics			
Model		Beta In	Т			Tolerance	VIF	Minimum Tolerance	
	Sex	0.148	2.487	0.013		1.000	1.000		
1	Work Status	.071 ^b	1.172	.242	.070	.964	1.037	.964	
	Age	.075 ^b	1.257	.210	.075	.985	1.015	.985	
	Marital Status	.064 ^b	1.073	.284	.064	.992	1.008	.992	
a. Dependent Variable: Motivation									
b. Predictors in the Model: (Constant), Sex									

5.2 Motivation and Academic Performance

The demographic variables (sex, work status, marital status, and age) have no significant influence on students' motivation and academic performance.

The influence of the flipped classroom on the demographic variables (sex, work status, marital status and age) combined was determined using a two-way multivariate analysis of variance (MANOVA) at a 95% level of significance.

Table 3: Tests of between-subject effects of the combined influence of demographic variables (sex, work status, marital status, age) on Distance Learners' academic performance

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	p		
Corrected Model	Academic	4918.38ª	34	144.66	2.01	.00		
	Performance							
Intercept	Academic	141017.67	1	141017.67	1959.07	.00		
	Performance							
Work * Age * Sex *	Academic	11.03	1	11.03	.15	.70		
Marital Status	Performance	11.05						
Error	Academic	17563.59	244	71.98				
	Performance							
Total	Academic	11(7442.00	279					
	Performance	1167443.00	279					
Corrected Total	Academic	22481.96 2	278					
	Performance		270					
a. R Squared = .219 (Adjusted R Squared = .110)								
b. R Squared = .129 (Adjusted R Squared = .008)								

Table 2 presents the test of between-subject effects using the two-way multivariate analysis of variance. The table shows no significant difference $F_{(1,244)} = 0.15$, p > 0.05 for the academic performance of the distance learners in a flipped classroom. This implies that the demographic variables of sex, work status, age and marital status have no influence on the performance of distance learners in the flipped classroom. Therefore, the hypothesis that states that the demographic variables (sex, work status, marital status, age) have no significant influence on students' academic performance is not rejected. This result supports the findings of Lee and Liu (2016) on the impact of flipped learning on students' performance where a case of no statistically significant differences in students' achievement based on gender variable was established. It implies that yes, a flipped classroom is a plausible innovation in Nigerian distance learning classes and that demographic variables are not barriers to achievement of the enrolees.

6. Conclusion

This study concludes that though demographic variables are important factors in learning, yet they may not be crucial predictors of performance in some selected learning conditions, especially learning conditions that would by their nature break all barriers. However, the study established that sex could be a crucial matter when considering motivation in a flipped learning situation, whereas does not influence performance.

Conflict of Interest Statement

The authors declare no conflicts of interest.

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