



## A QUASI-EXPERIMENTAL STUDY TO COMPARE THE IMPACT OF ONLINE AND OFFLINE MODES OF LEARNING ON GRAPHIC AIDS AMONG B.SC. NURSING STUDENTS OF SMVDCON.

### Nursing

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### ABSTRACT

Education is as old as the human race. Education encompasses both the teacher and learning of knowledge, proper conduct and technical competency. Learning modifies the behavior of the individual. The present study was undertaken to compare the impact of online and offline modes of learning on Graphic Aids among B.Sc. Nursing students. The study was conducted on 58 students using purposive sampling technique. The Quasi Experimental research design was used. Data was collected by Sociodemographic variables and questionnaire was used to assess the knowledge of students and it was analyzed by descriptive & inferential statistics. Tables & bar diagrams were used to depict the findings. In offline group the mean pre offline score was 11.59 and SD was 2.897 which indicates a moderate level of knowledge before any intervention. In the online group the mean pre online score was 12.24 and SD was 2.862 which suggest that the online group had a slightly better initial knowledge level compared to the offline group. On the other side in the offline group the mean post offline score was 20.34 and SD was 3.232 which indicates a significant improvement in knowledge levels after the intervention. In online group the post online mean score was 12.79 and SD was 2.704 and it shows the improvement in this group is less pronounced compared with pre online score. There was a significant association between age and pre offline knowledge score. Thus, it can be concluded that the offline learning is more focused, less interrupted, more reliable, and more interactive and keep students attentive.

### KEYWORDS

Education, Online mode, Offline mode.

### INTRODUCTION:

**Education is an all-round drawing out of the best in child and man-body, mind and spirit. MAHATMA GANDHI**

Education is as old as the human race. It is closely bound with the intellectual economic, cultural, emotional and social life of human race. The idea of education is not merely to impart knowledge to pupil in some subjects but to develop in him those habits and attitude with which he may successfully face the future. In the narrow or technical sense, education stand for deliberate instruction or training providing to the child by the society through its various institution during a particular time in order to modify his behavior.<sup>1</sup>

Different people attach different meaning to education. According to Aristotle, "education means creation of sound mind in a sound body". Education encompasses both the teacher and learning of knowledge, proper conduct and technical competency.<sup>2</sup> Learning is to obtain new knowledge that will have a tremendous impact on our well-being. A student must be able to store all this information in their heads and use it for future references in order for learning to be a valuable tool for life.<sup>3</sup>

The advancement of human civilization is significantly influenced by education. Since with the beginning of time, the way that people learn has changed significantly overtime and continues to do so as a result of developing technology. However, thanks to the internet and other digital technology, online learning environment are becoming more popular than traditional classroom.<sup>4</sup>

In the digital era 2021, the education system has developed many ways to expend the learning material for students to study. The most traditional way is physical learning face-to-face or offline method. Leisi Pei and Hongbin Wu (2019) stated that student motivation, time management and limited internet access are identified as major contribution of offline education, which is still the most popular teaching method.<sup>5</sup>

Online learning refers to instruction that is delivered electronically through various multimedia and internet platform and applications. It is used interchangeably with other terms such as web-based learning, e-learning, computer assistance instruction, and internet-based learning.<sup>6</sup> It was first introduced when the internet came into existence. Online education was a distance learning method among higher education students.<sup>7</sup>

Both online and offline classes are valuable in their own way. The

superiority of one of the education forms varies from one individual to another. Every student has different academic needs and faces different situations during their academic journey. A student from a rural with a lack of money might be more comfortable with a nearby school whereas a student from an affluent background can easily get access to top online tutoring platforms.<sup>8</sup>

Both traditional and contemporary education is connected to and distinct from one another. There was a point in our nation's early history when there were no schools. The education is passed down to the children from their ancestors. The value of education grew across the nation as a democratic government was created in the next year. Schools were opened where any kind of students could come and learn. Modern education was established at that time.<sup>9</sup>

Graphic aids are also known as visual aids that present information in pictorial form or in other specific formats in order to consolidate clarify or prove the written material. Its helps to conveys a thousand words in just a glance. Graphic aids can serve many educational objectives for group teaching of 20-30 students.<sup>10</sup> Visual aids are powerful tools that can enhance your presentations and help you communicate more effectively with your audience. Whether you use images, graphs, charts, videos, or diagrams, visual aids can help you achieve various benefits.<sup>12</sup> There are different types of Graphic aids such as Chalkboard, Chart, Graph, Posters, Flash cards, Flannel board, Bulletin board, Cartoon, Maps.

The covid-19 outbreak has significantly impacted different spheres of life, including education when the covid-19 pandemic was aggravated worldwide, various education institution were compelled to cease operations due to implemented lockdown measures (Schleicher, 2020).<sup>13</sup>

Due to advancement in technologies, Learners now want quality programs they can access from anywhere and at any time because of these demands online education has become a viable alluring option to business professionals stay at home parents and other similar populations. Online Educational students have freedom to communicate with instructor, classmate, study complete assignment from any interact accessible point, (Richard Son and Swan 2003).<sup>13</sup>

Online learning permits teacher to use digitalized tools and teaching method and in offline teaching takes a more traditional approach.<sup>14</sup> Online education is more affordable. There is wide range of payment

option pay in installment. It can save money and class material is available for free .with help of online learning with can take the free materials from study but in offline learning you have to pay money.

Offline education that takes place in a physical classroom, online education takes place via the internet. Instead of traveling to a physical location where the classes are held, students need a computer, a source of electrical power and an internet connection. In offline class student will be able to interact with their friends and teachers at the same time, which in turn will boost their interest in the topic. This will help them understand all the topics easily. Whereas in online classes, the interaction between students as well as teachers is limited. In online learning there is computer mediated communication and it is virtuality and in offline learning there is face-to-face communication and offline is reality.

Both online and offline modes of learning have their own advantages and disadvantages.

### OBJECTIVES

1. To assess the impact of online and offline modes of learning on graphical aids before Intervention.
2. To reassess the impact of online and offline modes of learning on graphical aids after Intervention.
3. To compare the impact of online and offline modes of learning on graphical aids before and after intervention.
4. To find out the association between the impact of online and offline modes of learning among students with their selected socio-demographic variables.

### ASSUMPTIONS

The offline mode of learning will be the most preferred mode of education among students.

### MATERIALAND METHODS:

**Research Design:** Non experimental research design

**Research Settings:** SMVDCoN

**Population:** B.Sc. (N) students

**Target population:** B.Sc. (N) 1<sup>st</sup> year students

**Sample size and sampling technique:** 58 students and purposive sampling technique

### Tool & Method of Data Collection:

**Part A:** Demographic variables includes age, gender, semester, location, wifi, technology, experience, preference, Performance and technology used

**Part B:** Questionnaire to assess level of knowledge

### Criteria for sample selection

#### Inclusion criteria

- Students who are studying in B.Sc. Nursing 1<sup>st</sup> year.
- Students who will present at the time of study.
- Students who use are willing to participate in study

#### Exclusion criteria

- Students who are studying in B.Sc. Nursing 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year.

### Variables:

**Research Variables:** - Impact of online and offline modes of learning

**Development of tool:** Tool was divided into

**Section A:-** Socio-demographic data

**Section B:-** Questionnaire to assess the impact

### Criterion Measure

**Table1**

| CATEGORY   | SCORE   |
|------------|---------|
| ADEQUATE   | (17-25) |
| MODERATE   | (9-16)  |
| INADEQUATE | (0-8)   |

Maximum score: 25

Minimum score: 0

### Data collection procedure:

The data collection procedure was carried out in the month of March. The 58 students of B.Sc (N) 1<sup>st</sup> year was selected by purposive sampling technique. Permission was taken form Principal of the

college. The researches introduced themselves with the groups. The students were splitted into two groups as offline and online group. Both the groups were given interventions. The online group were given lecture through online mode of education and offline group through classroom lecture cum discussion on graphical aids. The total time taken in data collection and intervention was 1 month. Analysis was done as per the objectives by using descriptive and inferential statistics.

### Ethical consideration

1. Permission will be taken from PEC SMVDCoN.
2. Permission will be taken from principal SMVDCoN.
3. Informed consent will be taken from each participant of students. Plan of data analysis

### Major findings:

The result of the study showed that in the offline group, the pre offline adequate knowledge score was 6.9% moderate knowledge score was 75.9% and inadequate knowledge score was 17.2% while the post offline adequate knowledge score was 86.2%, moderate knowledge score was 13.8% and inadequate knowledge score was 0%. On the other side in the online group the pre-online adequate knowledge score was 10.3%, moderate knowledge score was 82.8% and inadequate knowledge score was 6.9% while post online adequate knowledge score was 6.9%, moderate knowledge score was 86.2% and inadequate knowledge score was 6.9%.

In offline group the mean pre offline score was 11.59 and SD was 2.897 which indicates a moderate level of knowledge before any intervention. In the online group the mean pre online score was 12.24 and SD was 2.862 which suggest that the online group had a slightly better initial knowledge level compared to the offline group. On the other side in the offline group the mean post offline score was 20.34 and SD was 3.232 which indicates a significant improvement in knowledge levels after the intervention. In online group the post online mean score was 12.79 and SD was 2.704 and it shows the improvement in this group is less pronounced compared with pre online score. There was a significant association between age and pre offline knowledge score.

Thus it can be concluded that the offline learning is more focused, less interrupted, more reliable, and more interactive and keep students attentive.

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