



EFFECTIVENESS OF THE FOUNDATION COURSE OF EDUCATIONAL TECHNOLOGY AMONG PROSPECTIVE TEACHERS

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Abstract Due to the Pandemic, Technology enters every field. Now technology rules the entire world. Technology brought tremendous changes in the field of Education. The revolution in the teaching-learning process becomes a challenge for teachers. To overcome this problem, teachers should get prepared to face the teaching-learning process in a different way with the help of technology. This paper is an attempt to introduce Educational Technology to prospective teachers to prepare them for future challenges. 85 prospective teachers were taken as samples for the study. The objective of the study is to find out whether there is any difference between the pre-test and post-test scores of prospective teachers in the foundation course of Educational Technology. An experimental method is employed in this study. The post-test scores explain that there are few take away from the foundation course of Educational Technology. This course is designed to equip them in the field of technology and how to incorporate technology in the teaching-learning process.

Index Terms - Educational technology, Foundational Course, Prospective teachers

I. Introduction

Educational Technology acts as a supporting tool for teachers to make learning effective. Educational technology is used to promote and access education from any place at any time. EdTech helps students learn at their own pace. To facilitate students with such features, every teacher to be equipped with technological knowledge. Teachers have to provide adequate resources to engage the students in an effective way. Especially in the inclusive setting, enriching the teachers with educational technology is mandatory. Preparation for Teachers has to be started in the training period itself. So, the initiative had taken to enhance the prospective teachers with the knowledge of Educational Technology.

II. Research Gap

Due to the Pandemic, it becomes necessary to equip teachers with educational technology knowledge. Online sessions become the part and parcel of the teaching-learning process. Educational Technology is essential for teachers to cope with the challenges of the future generation. Every Student is Unique, and engaging them in the real classroom needs a lot of planning and preparation. Technology reduces the burden on teachers.

Technology helps teachers in bringing up the real world into the classroom and explain the concepts with practical examples. To prepare the prospective teachers with regard to different methodologies, and strategies that can be used in the classroom. It is important to train them with the technology So, the investigator decided to take up research on the topic of Educational Technology, which is introduced in the foundation course.

III. Methodology

3.1 Objective of the Study

To find out the difference between prospective teachers' pre-test and post-test scores in the foundation course of Educational Technology.

3.2 Hypothesis of the Study

There is no significant difference between prospective teachers' pre-test and post-test scores in the foundation course of Educational Technology.

3.3 Method Utilised for the Present Study

The investigators have embraced experimental research for the present research.

3.4 Title of the Study

The title of the present study is, "Effectiveness of the Foundation Course of Educational Technology among Prospective Teachers"

3.5 Sample Description

85 prospective Teachers (2022 – 2024 batch) of Loyola College of Education were taken as samples for the study.

3.6 Data Collection and Analysis

Data collection was done using an online questionnaire. Google form sent through WhatsApp.

Data collection was done during October 2022 from the respondents who were taking the foundational course classes from the first week of October 2022. Statistical analysis of the responses of the participants was done.

3.7 Tool Used

The questionnaire was constructed by the investigator. Technology-based questions were asked through Google forms to test their technological knowledge. Pre-test was conducted to test their previous knowledge of the technology and Post-test was conducted to check whether they had received enough information with regard to technology through the foundational course of Educational Technology.

4 Result and Discussion

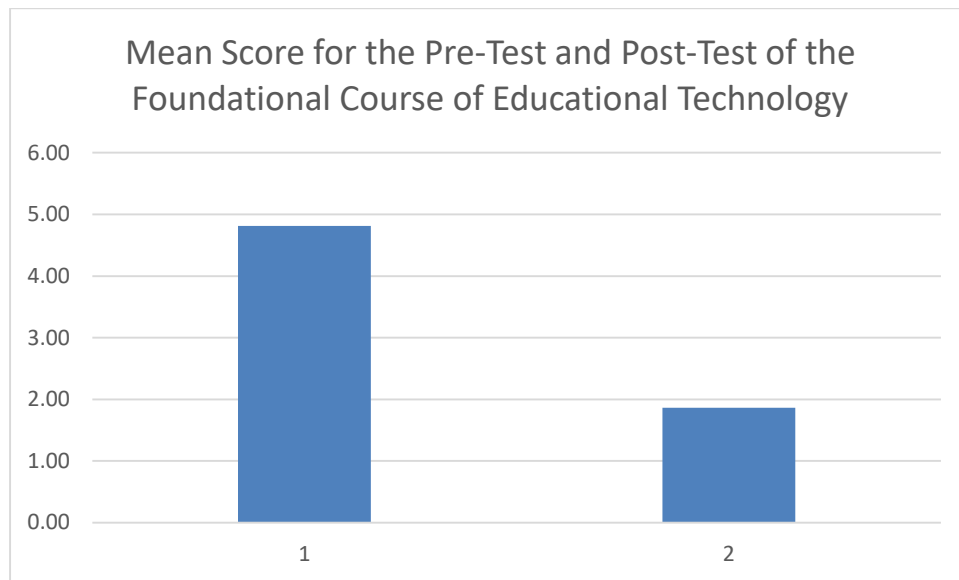
4.1 Statistical Analysis of the Data

Statistics deals with the scientific method by which data is gathered, organized, examined, and interpreted for the cause of description and decision-making.

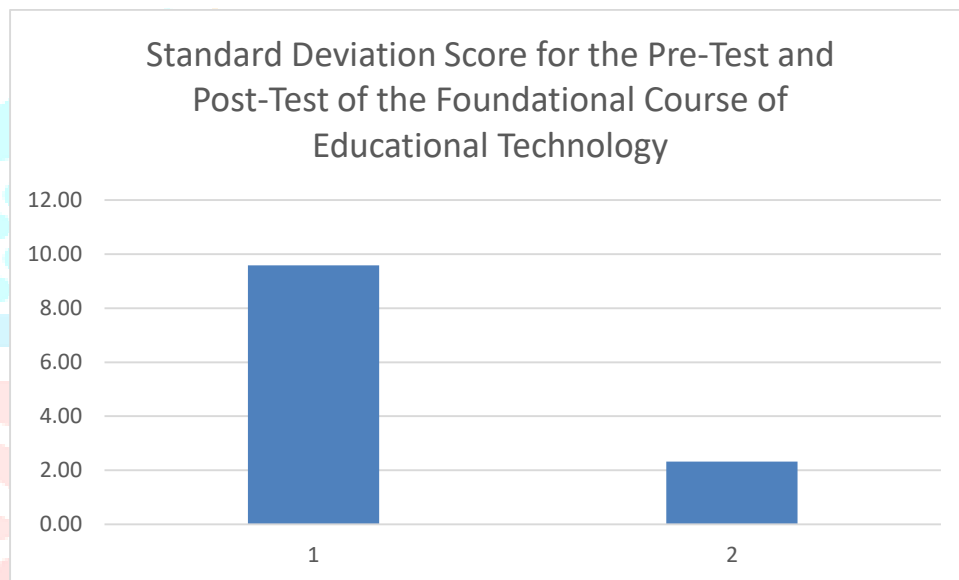
4.2 Descriptive Analysis of Data

Descriptive Statistics - It manages the presentation of numerical facts, or information, in either tables or graphs form, and with the technique of analysing the information.

4.2.1 Graphical Representation for the Mean Scores



4.2.2 Graphical Representation for the Standard Deviation



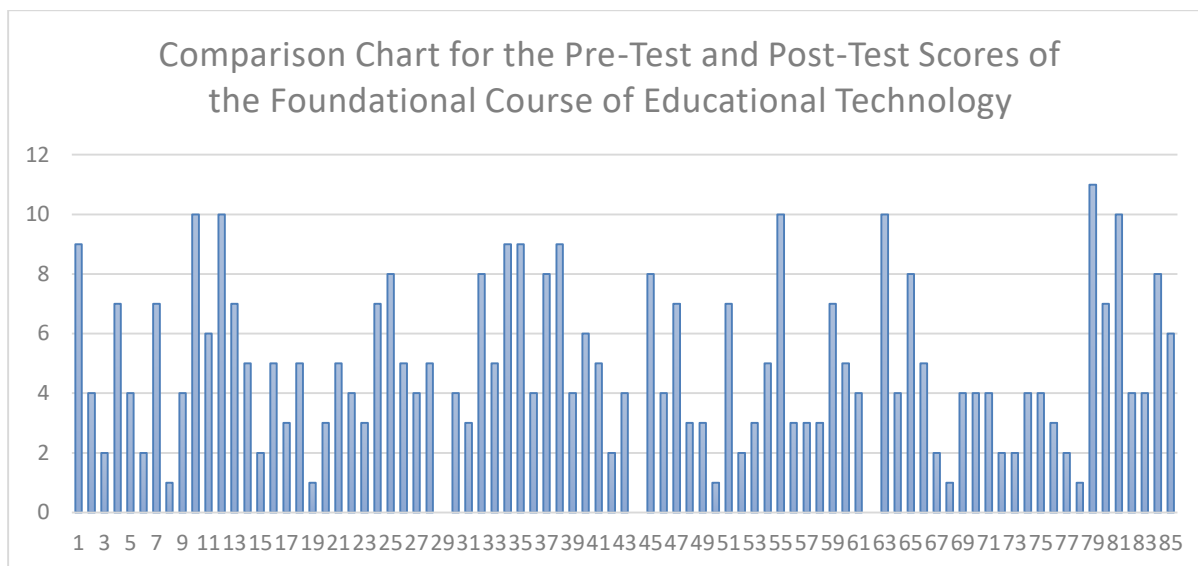
4.2.1 Comparison Table of Pre-Test and Post-Test Scores of the Foundational Course of Educational Technology

S.No.	Pre-Test Score	Post-Test Score	Differences
1	4	13	9
2	4	8	4
3	6	8	2
4	3	10	7
5	6	10	4
6	8	10	2
7	3	10	7
8	9	10	1
9	6	10	4
10	4	14	10
11	5	11	6

12	3	13	10
13	7	14	7
14	4	9	5
15	8	10	2
16	3	8	5
17	2	5	3
18	5	10	5
19	4	5	1
20	7	10	3
21	3	8	5
22	4	8	4
23	3	6	3
24	4	11	7
25	0	8	8
26	5	10	5
27	6	10	4
28	6	11	5
29	7	7	0
30	4	8	4
31	7	10	3
32	4	12	8
33	4	9	5
34	4	13	9
35	3	12	9
36	5	9	4
37	2	10	8
38	2	11	9
39	6	10	4
40	5	11	6
41	3	8	5
42	6	8	2
43	3	7	4
44	6	6	0
45	3	11	8
46	3	7	4
47	5	12	7
48	4	7	3

49	5	8	3
50	7	8	1
51	4	11	7
52	6	8	2
53	7	10	3
54	6	11	5
55	0	10	10
56	4	7	3
57	7	10	3
58	6	9	3
59	7	14	7
60	3	8	5
61	7	11	4
62	8	8	0
63	4	14	10
64	5	9	4
65	6	14	8
66	4	9	5
67	3	5	2
68	4	5	1
69	3	7	4
70	5	9	4
71	7	11	4
72	10	12	2
73	5	7	2
74	6	10	4
75	5	9	4
76	5	8	3
77	6	8	2
78	6	7	1
79	3	14	11
80	5	12	7
81	2	12	10
82	3	7	4
83	5	9	4
84	5	13	8
85	7	13	6

4.2.3 Graphical Representation for the Comparison Chart for the Pre-Test and Post- Test Scores



The comparison chart and table clearly show the differences between the pre-test and post-test scores of the foundational course of educational technology. The differences reflect the effectiveness of the teaching of the foundational course of educational technology. 96.4% of students scored more on Post-Test than Pre-Test. 3.6% of students show no change in their pre-test and post-test scores in the foundational course of Educational Technology. Most students had gained knowledge from the foundational course of Educational Technology. This shows the effectiveness of teaching the foundational course of Educational Technology.

V. Conclusion

Teaching Educational Technology helps prospective teachers to face the techie world with a positive attitude. This research highlights the introduction of educational technology to prospective teachers through the foundational course and tried to identify the effectiveness of the course. Educational Technology helps today's teachers to blend technology and tools into their classrooms. Young teachers must enhance and develop the learner-centeredness of their classrooms. This makes the investigator conduct the research.

VI. Reference

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