



CAPSTONE PROJECT

“Working with Data”

on

“Online Vs Offline Learning”

University of Petroleum and Energy Studies



Under the Guidance of:
Mr. Ravindra Singh Rawat

Submitted by:

S.N.	Name	Sap_Id	Batch
1	Jatin Naruka	500094796	B - 16
2	Hitendra Sisodia	500091910	B - 15
3	Ujesh Sisodia	500091882	B - 15
4	Raghav Jain	500091942	B - 16
5	Himanshu Saraswat	500091887	B - 15

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Chapter -1

Introduction to the Problem

1.Introduction to the Problem.

This report summarizes the findings of a survey performed in April 2022 to investigate participants' learning mode preferences.

Given the current situation, which is a pandemic, there was a necessity to shift from the traditional style of learning to an online one. Though e-learning has been in use for a few years, its breadth has expanded significantly in the last year and a half. Some people prefer e-learning over conventional offline learning, while others prefer the polar opposite.

What will be the style of learning after the lockdown is lifted? Will we continue to use the usual offline mode, or will we have the opportunity to select a different mode? So, we conducted this poll, which received over 377 responses, to understand about people's learning preferences. Furthermore, it aided in the investigation of the impact of online mode on learner performance and the issues related with this style of learning.

The purpose was to gain a thorough understanding of the learners' perspectives on this subject and, as a result, to determine which form of learning would be most advantageous in the future. It was also useful to learn about the necessary improvements that must be made if we are to continue with the online service.

We got the huge idea of online and offline mode and it works properly for every person to person. The main objective was to know the advantages as well as disadvantages of each of the mode. This mode made us more knowledgeable as the data was very interesting each of them.

The data which we got made us more reachable to the student's opinion and the way they think towards online as well as offline studying. The data we got was majority said that online learning helps in saving a lot of time in travelling and talking about offline. University given us the an opportunity to conduct the survey on the online and offline examinations through this survey we developed the communication ability and how the functioning as the team our survey gave as analysis on the online and offline platform their advantage and the disadvantage of the particular section we learned the viewpoint of students we attracted the most of student who are between at age of 15- 22 we device the graph and the data table , the member in our group Ujesh, Himanshu, Hitendra, Jatin and Raghav.

Chapter-2

Data Set & Data Collection Techniques

2. Data Set & Data Collection Techniques

The survey's goal was to collect data from university students, thus a form with the needed questions was sent via various social media channels.

The impact on money, education, and grades; issues experienced during online contact and assessment. The form includes employment-related questions to guarantee that the data is assessed on all conceivable versions to get reliable results.

We got 377 answers from students from various states and universities, each of which used a different e-learning platform. This helped to guarantee that the results were not based just on the advantages and disadvantages of a particular digital platform.

In answer to each question, the evaluated data is shown statistically as well as visually. Important information discovered during the analysis is provided, along with any appropriate references.

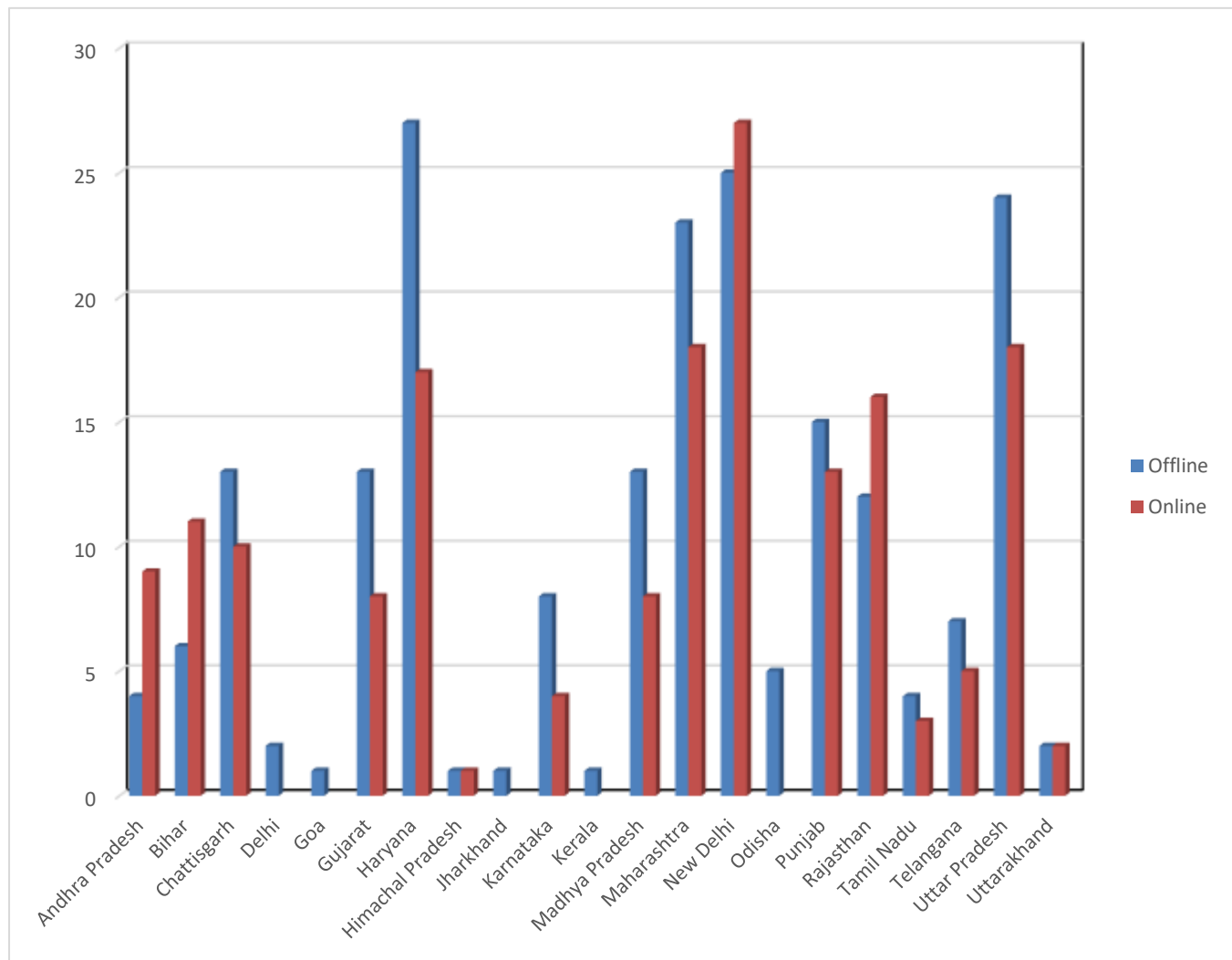
The data was in a huge amount as we got many responses and some of them told the solution as well and we are also likely to be glad that we had conducted this unique idea. There are some other sources also there which we used in searching more ideas of online and offline. The collection of data was held by us by different pathways that is some web searches, offline data by some books of previous years and by asking a knowledgeable person.

Data collection is a process of identifying and measuring the collection happens through the Google Form and we inputted data in the spreadsheet with usage of Excel. We prepared the graph and conducted the analysis by help of the pivot table.

The data we collect from different sources are very difficult to handle as well as it makes us more thing to accessible and make the project broader minded such that we create more valuable resources to forward our idea. Data collection a very important work which we did that make us more knowledgeable in making the project more meaningful.

We had also made some of data by our thinking as well. As we were also a student and we had also suffered from this thing and this the main motive we had chosen this idea of Online versus Offline studies.

2.1 Demographic view of survey participants

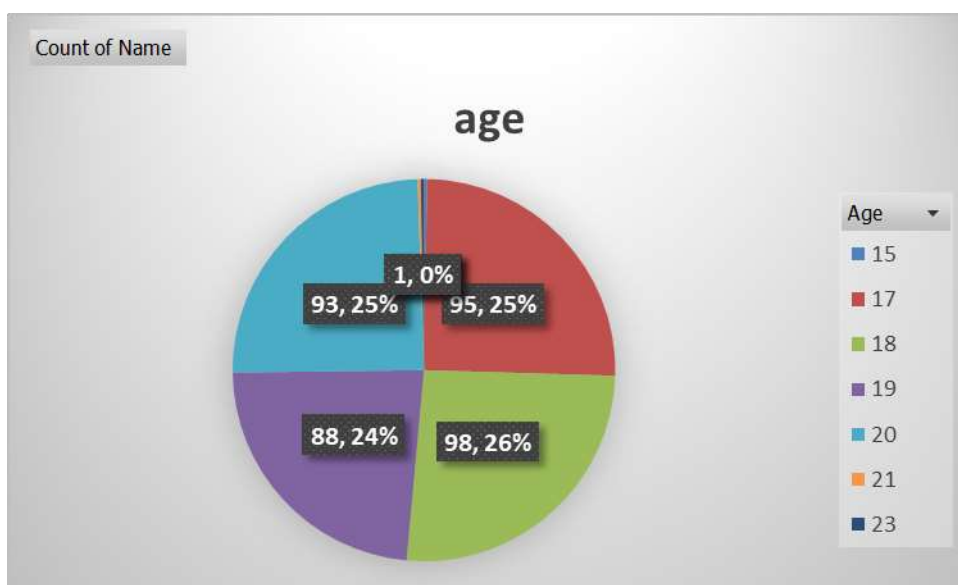
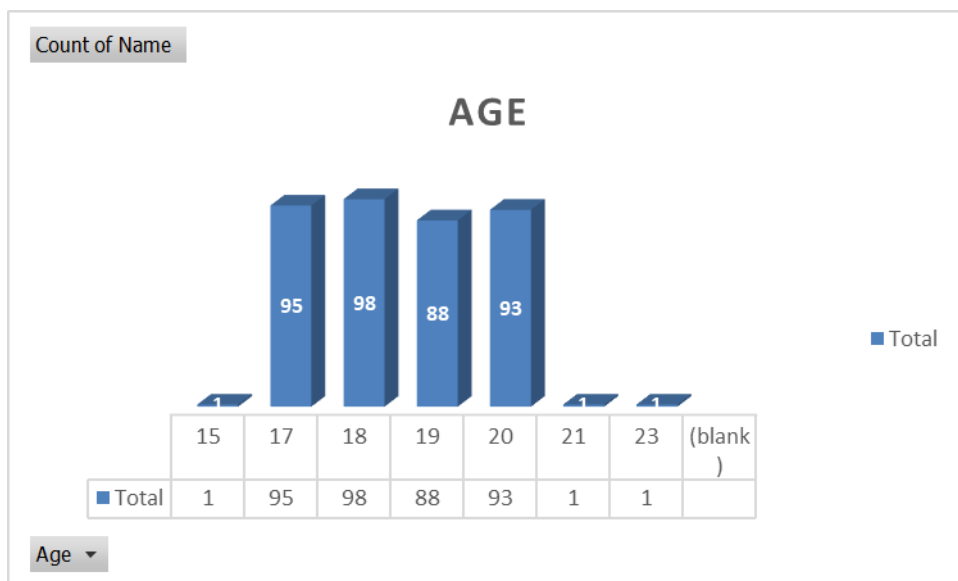


The data is primary survey which had done in month of April 2022 the data hold the number of values of the participants from each and every state and participants age and the gender with highest data form Uther Pradesh, Delhi and Haryana. The data is primary survey which had done in month of April 2022 the data hold the number of value of the participants from each and every state and participants age and the gender with highest data form Uther Pradesh , Delhi and Haryana 1. 2 Age

Chapter-3

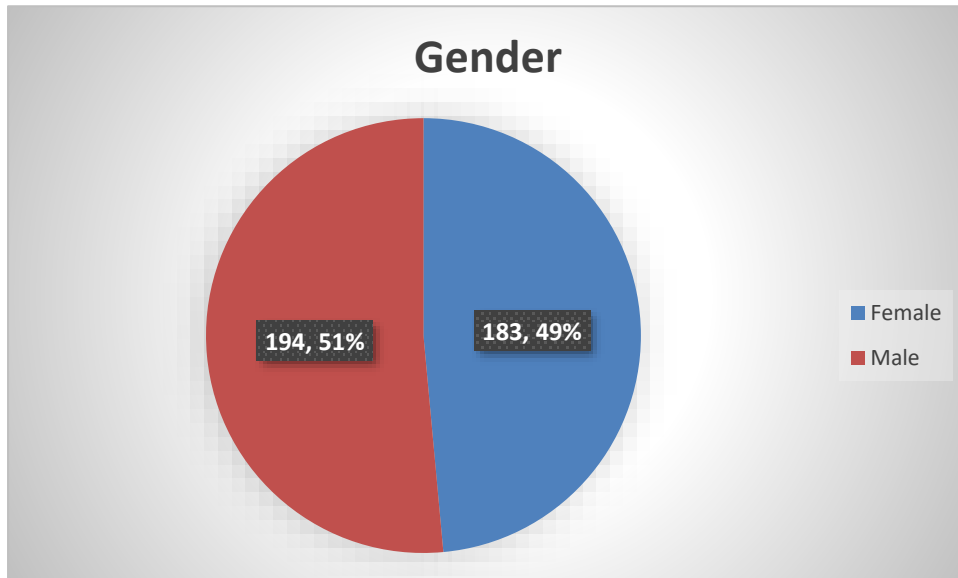
Data Analysis & Interpretations

3. 1 Age



In terms of age the highest recorded number in pre adults and adolescents with minimum data recorded from pre-teen which was around 1% and the highest from the adolescents at the age of 18 to 20. In terms of age the highest recorded number in pre adults and adolescents with minimum data recorded from pre-teen which was around 1% and the highest from the adolescents at the age of 18 to 20.

3.2 Gender



During our survey we seen the most of the response we collected are male in compare female in ratio of 1.2:1 ratio the number of response from the female we got 183 about 49% and male was 194 % most of the response were generally received from the different states most of data we got Haryana and for the male new Delhi.

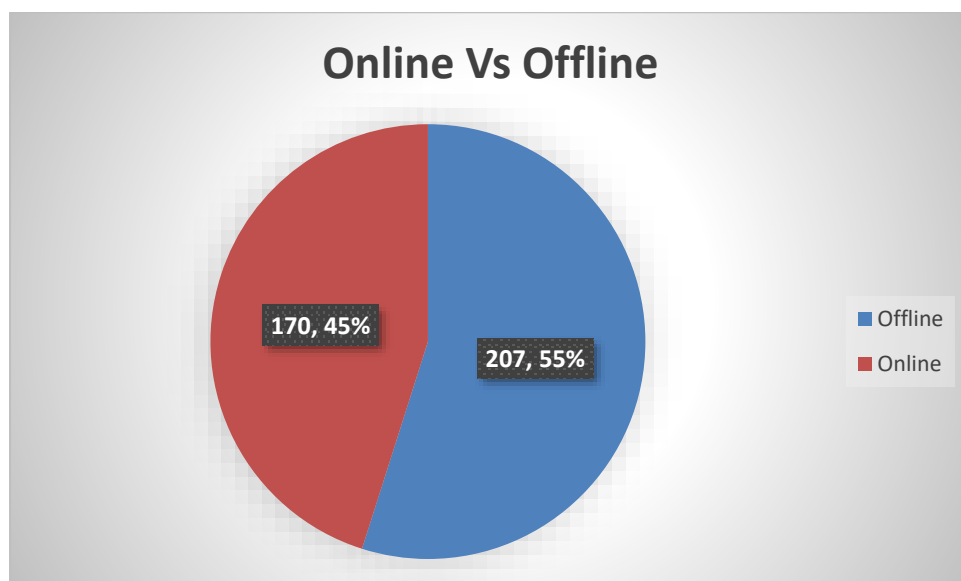
3.3 Financial Analysis

Online vs. offline learning has a significant financial impact, whether it is institutions or parents on the opposite side of the table.

Parents are dissatisfied with the money they pay to institutions for various services that children do not receive owing to the covid scenario.

There is no question that institutions are making a lot of money here since there is no need for power, sanitization, water, and other things. Not only are these expenses being avoided, but money is also being saved from the salaries of staff who are no longer needed.

Parents had no problems with student academics during offline courses since they were receiving sufficient assistance in school, but in online settings, in addition to school costs, they must also provide for a reliable internet connection and a tutor to advise them.



Row Labels	Count of Name2
Offline	207
Online	170
Grand Total	377

Main Message:

- **Profit for institutions.**
- **Parents and students are highly disappointed due to high fees.**

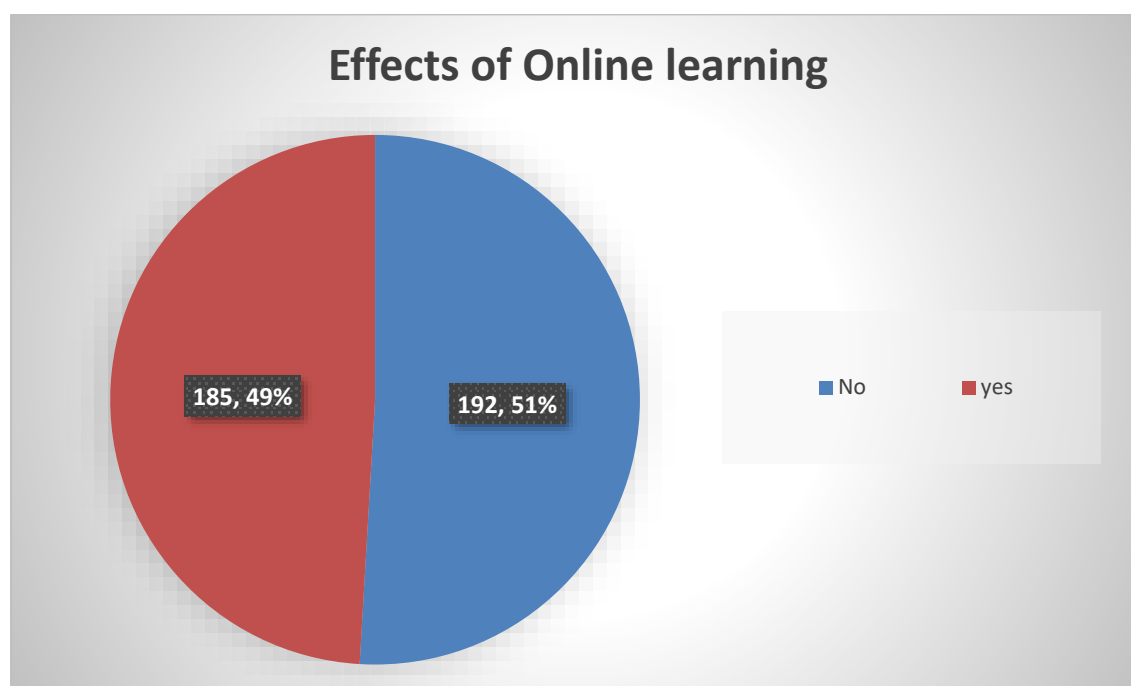
Chapter-4

Data Visualization

4.1 Effects of Online learning

The online approach offers both benefits and drawbacks. One of the benefits is that it can accommodate practically everyone's schedule. Working or studying from home allows people to better manage their schedules by reducing travel time. It also gives us the option of recording the information so that we can examine it later if a person is unable to accommodate the classes into their schedule.

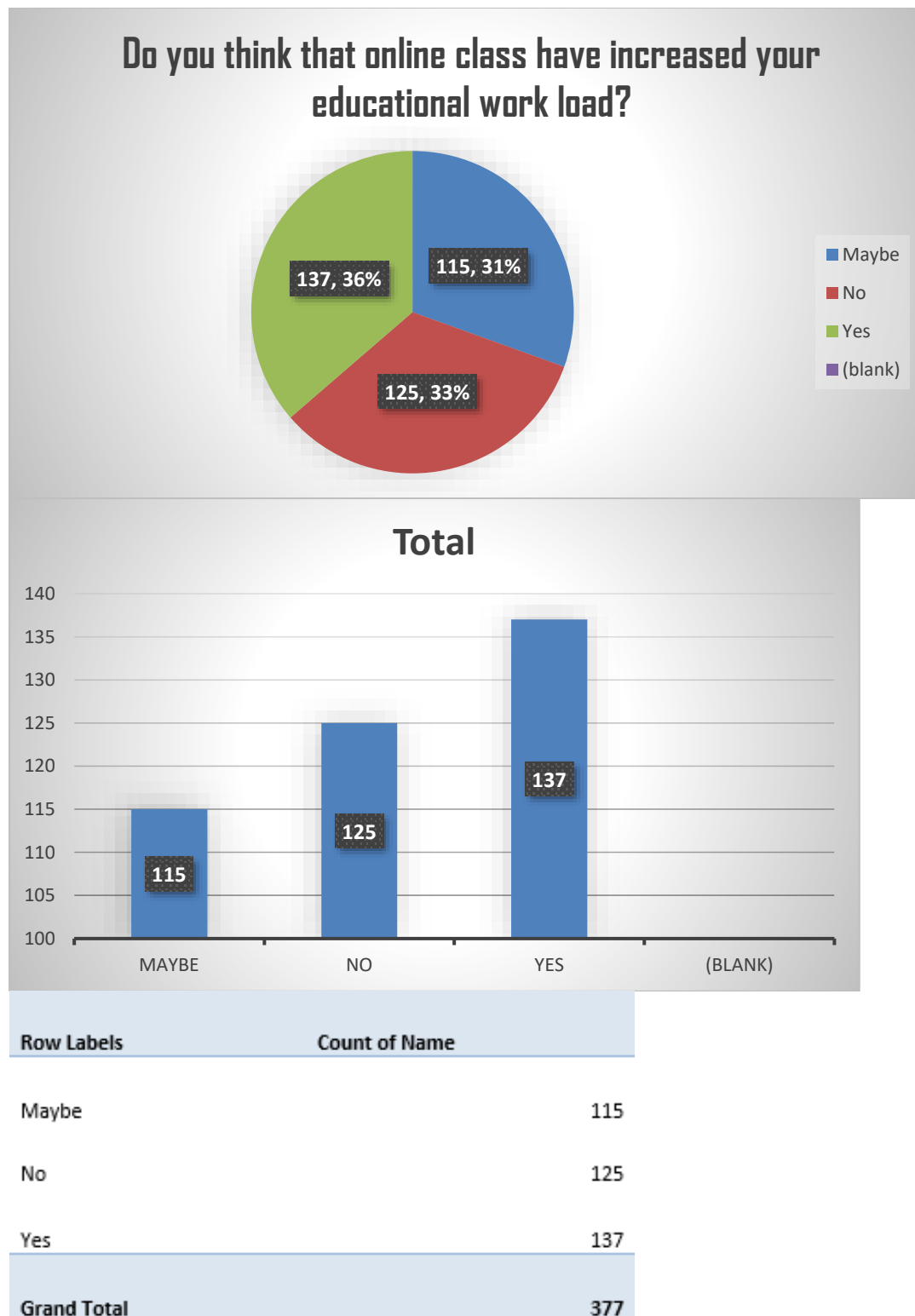
As we can see in this pie chart which shows what are like overall effect of online classes on student are not said to be good because nearly half of the person are not satisfied from this



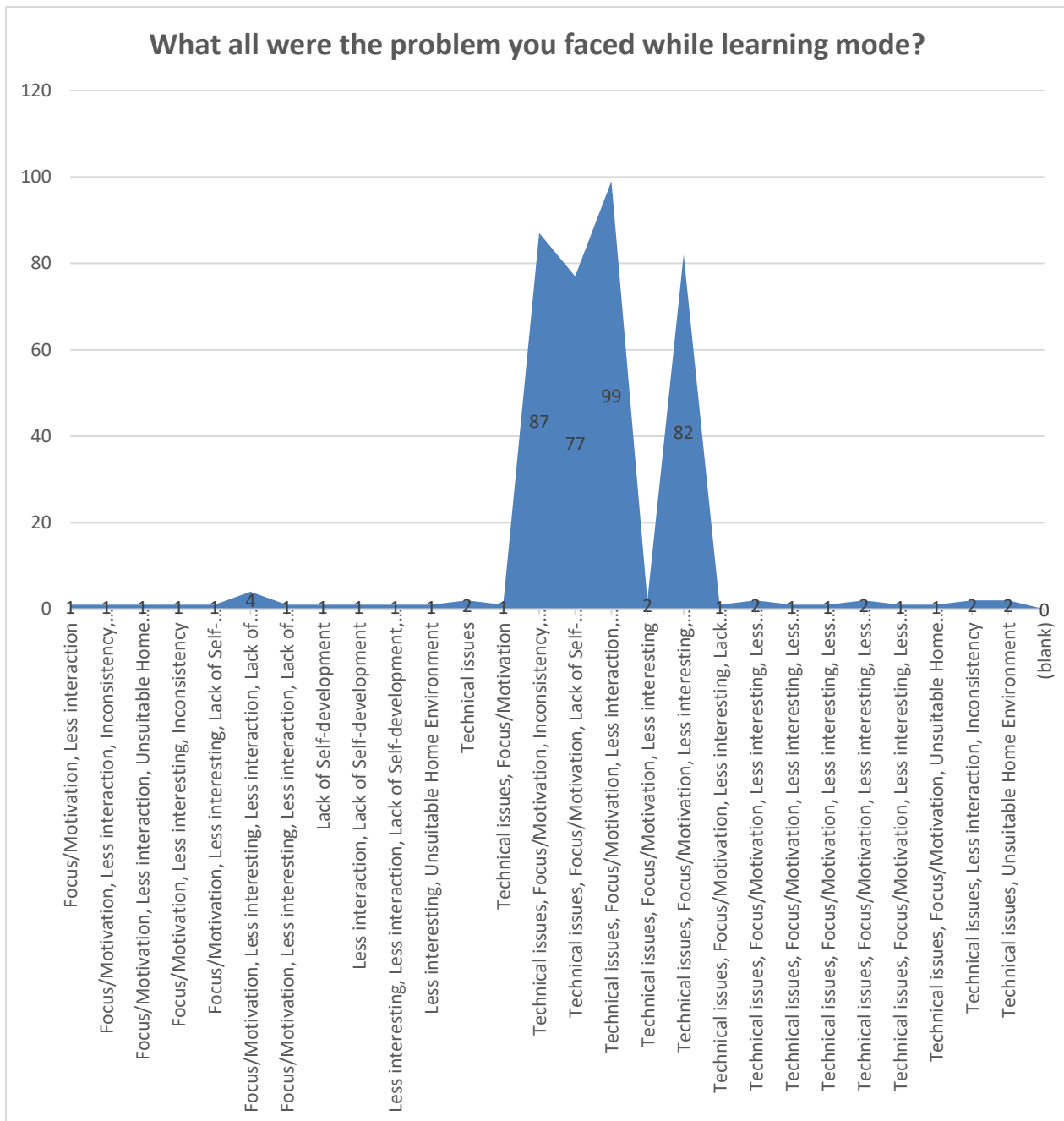
Row Labels	Count of Name
No	192
yes	185
Grand Total	377

4.2 Do you think that online class have increased your educational work load?

And taking about work load on students due to online classes is also very close between yes and no as well as maybe so on this point saying that online class increased work load on students is not correct so the response was pretty decent about this one.



4.3 What all were the problem you faced while learning mode?

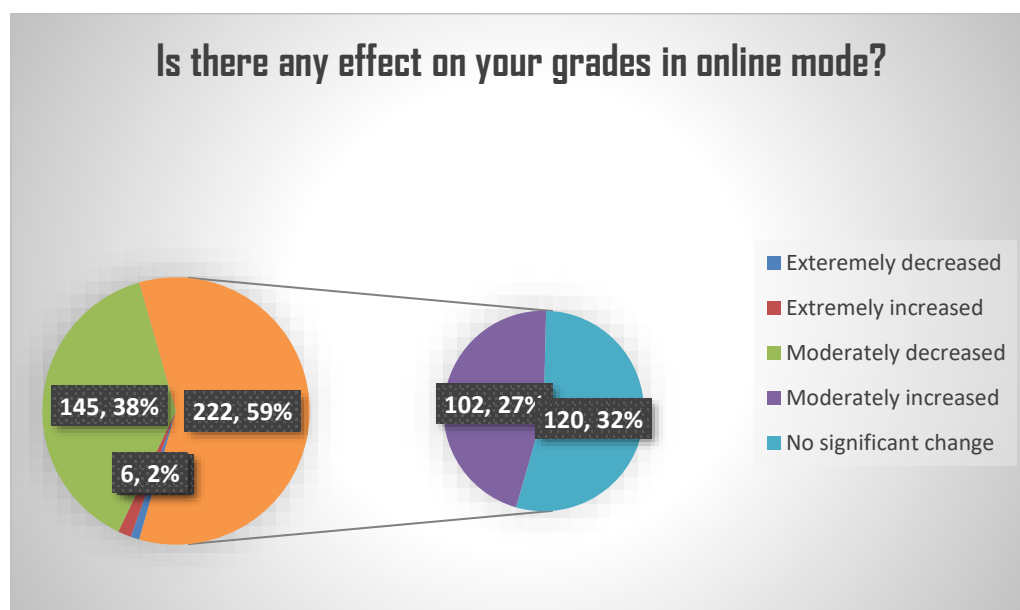


Main Message:

- **Most of the participants are satisfied with the changes in their schedules.**
- **Educational workload has increased due to change in the mode of learning.**
- **Learners lack focus and motivation due to the online mode. Also, they face many issues due to technical problems.**

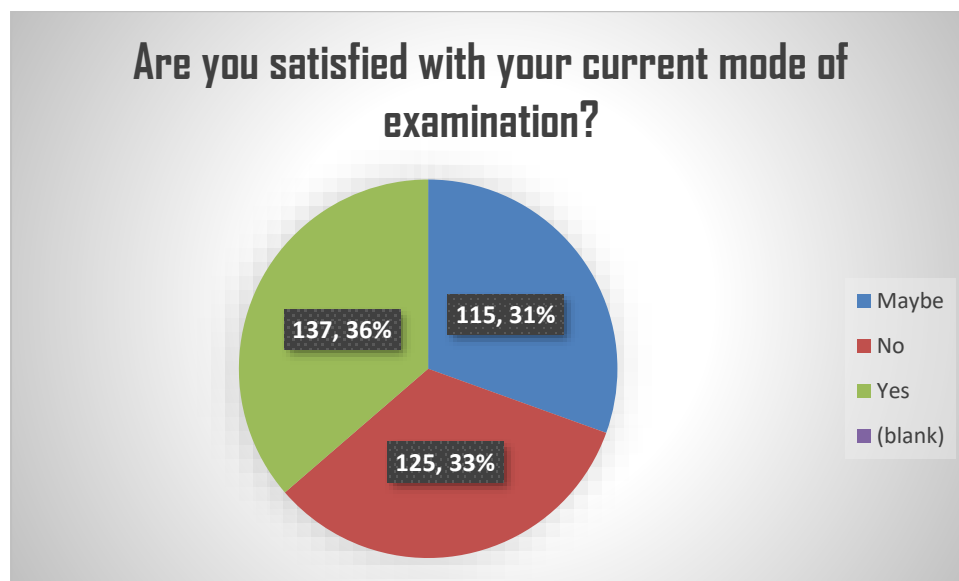
4.4 Effects on Examination

The project's primary goal is to give the objective, functionality, and behavior of the online examination. In this section, we attempted to estimate how online tests influenced students' academic life in terms of grades and regular academic schedules. And how happy are they with this new way of learning?



Row Labels	Is there any effect on your grades in online mode?
Extremely decreased	4
Extremely increased	6
Moderately decreased	145
Moderately increased	102
No significant change	120
Grand Total	377

4.5 Are you satisfied with your current mode of examination?



Row Labels	Are you satisfied with your current mode of examination?
1	95
2	83
3	84
4	110
5	5
Grand Total	377

Main Message:

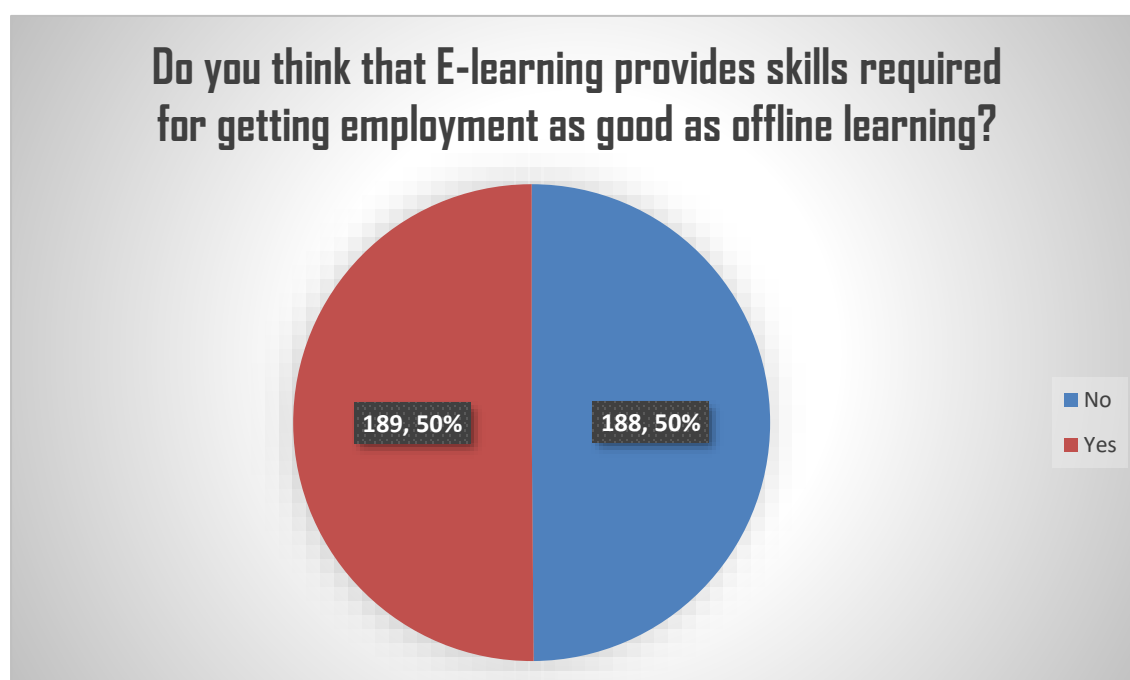
- **The online examination takes less time as compared to the offline examination.**
- **Susceptible to Cheating.**
- **Sitting long hours in front of the system causes health issues.**

4.6 Employment Issues

The education sector is one of the largest in India, and the epidemic has a significant impact on it.

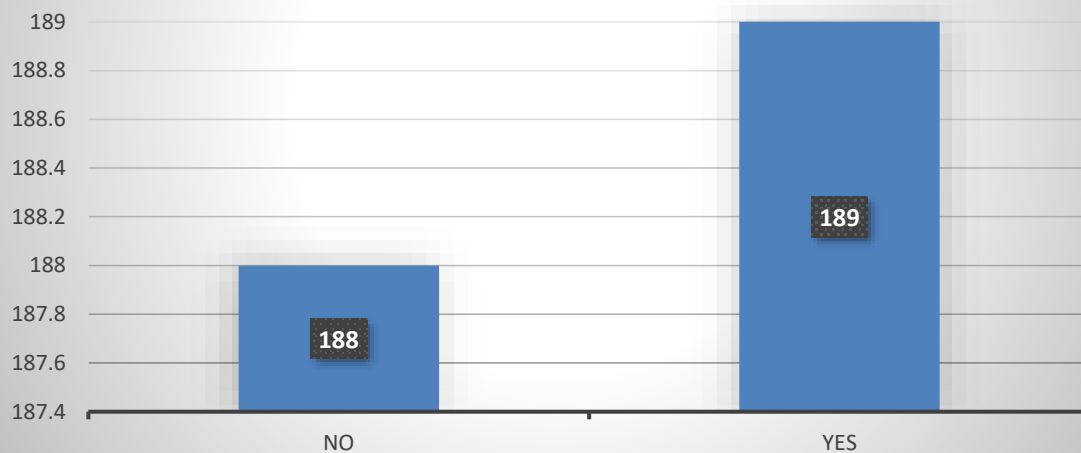
All classes have switched from offline to online mode, which has had a significant impact on employment ratios, whether it is employees who have been dismissed because there is no work in schools for them or transportation service providers who have lost their jobs since there is no demand.

Not only employees and teachers, but even graduate students, have been affected by this issue, since many organizations are not employing new interns owing to their poor financial circumstances.



Row Labels	Do you think that E-learning provides skills required for getting employment as good as offline learning?
No	199
Yes	178
(blank)	
Grand Total	377

Do you think that E-learning provides equal placement opportunities and readiness as compared to offline learning?



Row Labels	Do you think that E-learning provides equal placement opportunities and readiness as compared to offline learning?
No	188
Yes	189
Grand Total	377

Main Message:

- **Workers are losing their jobs.**
- **Graduating students are facing problem in placements**

Chapter-5

Findings

5.Findings

5.1 The common problem with everyone.

5.2 Laziness to do any work.

5.3 Males responded more responses as compared to females.

5.4 Parents are dissatisfied to pay full fees to institutes.

5.5 Due to online mode burden of education has increased

5.6 People prefers to learn offline

5.7 Many problems were faced but most common were about technical issue, lack of concentration and motivation.

5.8 Education is learned more in offline than in online.

5.9 Difficulty in getting placements.

5.10 Learning should be offline but Exams online.

NOTE: These points are on our way of thinking so this might differ from other people thinking.

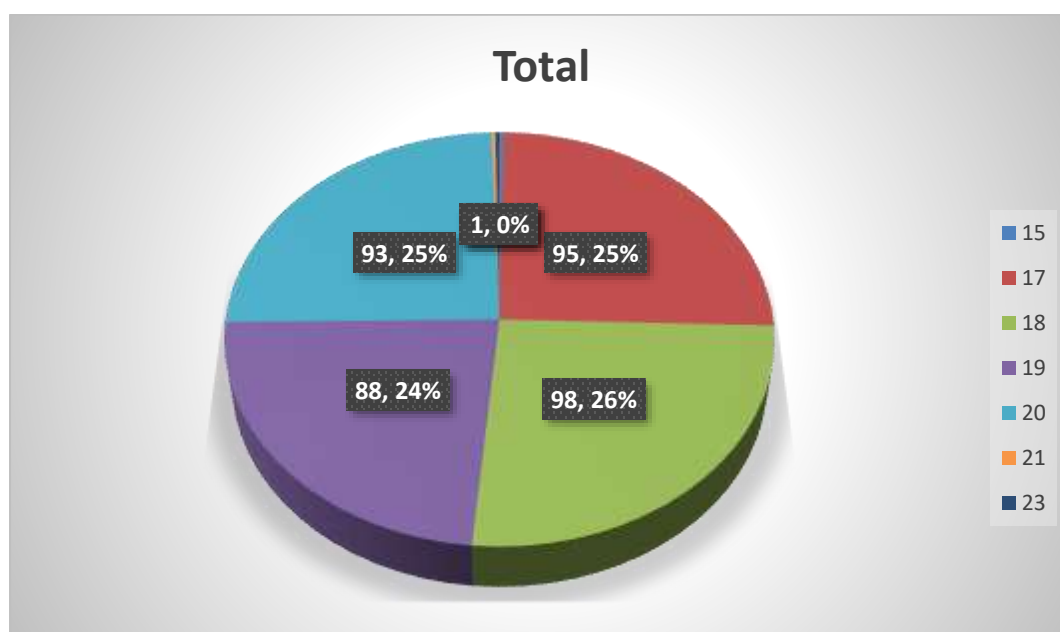
Chapter-6

Conclusion

6.Conclusion

Homeroom education is critical for energizing and stimulating synergistic learning. Understudy fundamental thinking abilities are improved through study hall training. Homeroom reading allows students to participate in actual dialogues where they may more likely utilize their fundamental intuition abilities to voice opinions or participate in a debate.

Traditional offline learning is now unquestionably a more appealing option. However, owing to the epidemic, online schooling is becoming increasingly important.



Row Labels	Count of How would you rate your overall experience of e-learning and online examinations?
1	95
2	83
3	84
4	110
5	5
Grand Total	377

This survey was filled by most of the students and some teachers and parents also so at the end question which arises is this e-learning is good or not so this was taken in form of rating. So, for most of them it is pretty good as well as for about 90 of them said it is not good and for 80 about of them said moderate.

Annexure-I

Responses and Questionnaire

Link for the questionnaire:

https://docs.google.com/forms/d/e/1FAIpQLSdF5RnWTN2-y0NJ7O25GRyeh9I2t8bKRhKd0FXb76eVXdlikQ/viewform?usp=sf_link

Link for the responses sheet:

<https://docs.google.com/spreadsheets/d/1LRU9wCKx0m2aJ2teQn7GtX79WjxrwrPMfje7aQnpEmk/edit?usp=sharing>