



Effectiveness of Teaching Learning Mechanism in Higher Education: Student Survey Report

Dr. Ramnivas Sharma, Incharge Central Library, Rajmata Vijayaraje Scindia Krishi Vishwavidyalaya, Gwalior (M.P.)

Introduction

Rapid changes of modern world have caused the Higher Education System to face a great variety of challenges. Therefore, training more eager, thoughtful individuals in interdisciplinary fields is required. Thus, research and exploration to figure out useful and effective teaching and learning methods are one of the most important necessities of educational systems; Professors have a determining role in training such people in the mentioned field. A university is a place where new ideas germinate; roots strike and grow tall and sturdy. It is a unique space, which covers the entire universe of knowledge. It is a place where creative minds converge, interact with each other and construct visions of new realities. Established notions of truth are challenged in the pursuit of knowledge. To be able to do all this, getting help from experienced teachers can be very useful and effective. Given the education quality, attention to students' education as a main product that is expected from education quality system is of much greater demand in comparison to the past. There has always been emphasis on equal attention to research and teaching quality and establishing a bond between these two before making any decision; however, studies show that the already given attention to research in universities does not meet the educational quality requirements. Attention to this task in higher education is considered as a major one, so in their instruction, educators must pay attention to learners and learning approach; along with these two factors, the educators should move forward to attain new teaching approaches. In the traditional system, instruction was teacher-centered and the students' needs and interests were not considered. This is when students' instruction must change into a method in which their needs are considered and as a result of the mentioned method active behavior change occurs in them. Moreover, a large number of graduated students especially bachelor holders do not feel ready enough to work in their related fields. Being dissatisfied with the status quo at any academic institution and then making decision to improve it require much research and assistance from the experts and pioneers of that institute. Giving the aforementioned are necessary, especially in present community of India; therefore, in the present study the new global student-centered methods are firstly studied and to explore the ideas of experienced university faculties, A google doc. File was created and distributed to the 100 randomly selected students. Then,

efficient teaching method and its barriers and requirements were investigated because the faculty ideas about teaching method could be itemized just through a qualitative study.

A pilot study was conducted and results were tested and the based on the result of the test, the questionnaire was modified and revised. Only the revised version of the questionnaire was finally administered. the questionnaire were containing close ended questions related to the information use pattern, reading habits, extent of use of library activities etc

The questionnaire broadly divided into three parts viz. General information, Information use pattern and Reading habits but to analyzing points of view it is imaginary divided into seven parts.

Objective of the study

- ☐ To find out that Online Learning and Teaching is a Good Solution for Education.
- ☐ To find out the Learning improve self-skill
- ☐ To find out the Student Satisfaction Levels
- ☐ To find out Online Education System status
- ☐ To find out if any Technical Issues of E-learning in Rural Area Students
- ☐ To find out if the Social Media useful in Learning and Teaching
- ☐ To find out that which Application Tools prefer to use for E-learning
- ☐ To find out the Problem of Online Learning and Teaching
- ☐ To find out the Best method of Learning and Teaching
- ☐ To find out if the online Learning and Teaching, the curriculum is affected

Hypothesis

- ☐ Online Learning and Teaching is a Good Solution for Education
- ☐ Every user prefer Learning improve self-skill
- ☐ Mostly Student are Satisfied
- ☐ Online Education System is good
- ☐ In Rural Area Students they are facing Technical Issues of E-learning
- ☐ User understand that Social Media useful in Learning and Teaching
- ☐ User prefer Application Tools to use for E-learning
- ☐ Having method of Learning and Teaching
- ☐ Online Learning and Teaching, the curriculum is affected

Methodology (Designing of Questionnaire (Google Doc. File) and Pilot study)

Survey method of research was used. A structured Google form was prepared and distributed among randomly selected 100 students and received back 98 filled forms. The percentages of recived Google form was 98% .The collected data from the students were scrutinised, tabulated and analysed. The Google Doc file consist of questions regarding general details such as name, mother language, age group, status in institute, designation, course of study, country name ,Indian state name .

The rest of the part consists of the use of information sources such as formal information sources, informal information sources and electronic information sources and the success rate of getting the required information from different sources etc.

Data Analysis

The Respondents Characteristics (98 out of 100)

Age(Years)	Age of Respondent	Gender	Subject
20	03	Male= 73 Female= 24 Blank= 01 Total= 98	Agronomy= 13
21	05		Agriculture= 02
22	11		Agriculture Economics= 07
23	15		Environmental Science= 01
24	30		Entomology= 07
25	14		Extension Education=13
26	04		Genetics and Plant Breeding= 08
27	03		Horticulture= 15
28	03		Law= 01
29	01		Library Science= 08
30	01		Plant Molecular= 03
31 to 35	02		Plant pathology= 12
36 to 40	50		Soil Science= 03
41 to 45	01		Others= 05
Total	98		98

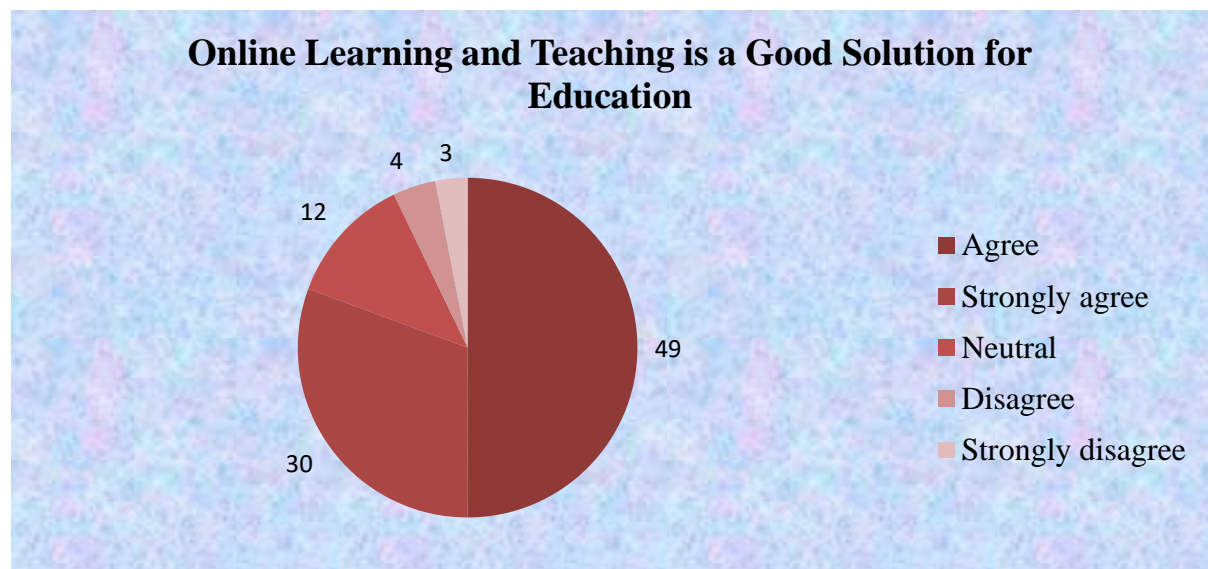
The present study is an attempt to assess and evaluate the Online Learning and Teaching habits of University Students in Current time, so as to draw necessary inferences in the regards. The Target audiences of this study are university students. Google Form has been used for data collection. Form distributed to students by Email and WhatsApp. Against a total of 100 students, 98 responses were received. The data thus obtained are analysed and tabulated.

Online Learning and Teaching is a Good Solution for Education?

Table 1

S. No.	Option	No. of Respondents
1	Agree	49
2	Strongly agree	30
3	Neutral	12
4	Disagree	04
5	Strongly disagree	03
	Total	98

Table 1 shows that the majority of university students are agree of online learning and teaching is a good solution for education in current time. 49 students are totally agreed and 03 students are strongly disagreeing. The table shows that the majority of students are agree for these types of methods, i.e. 79.

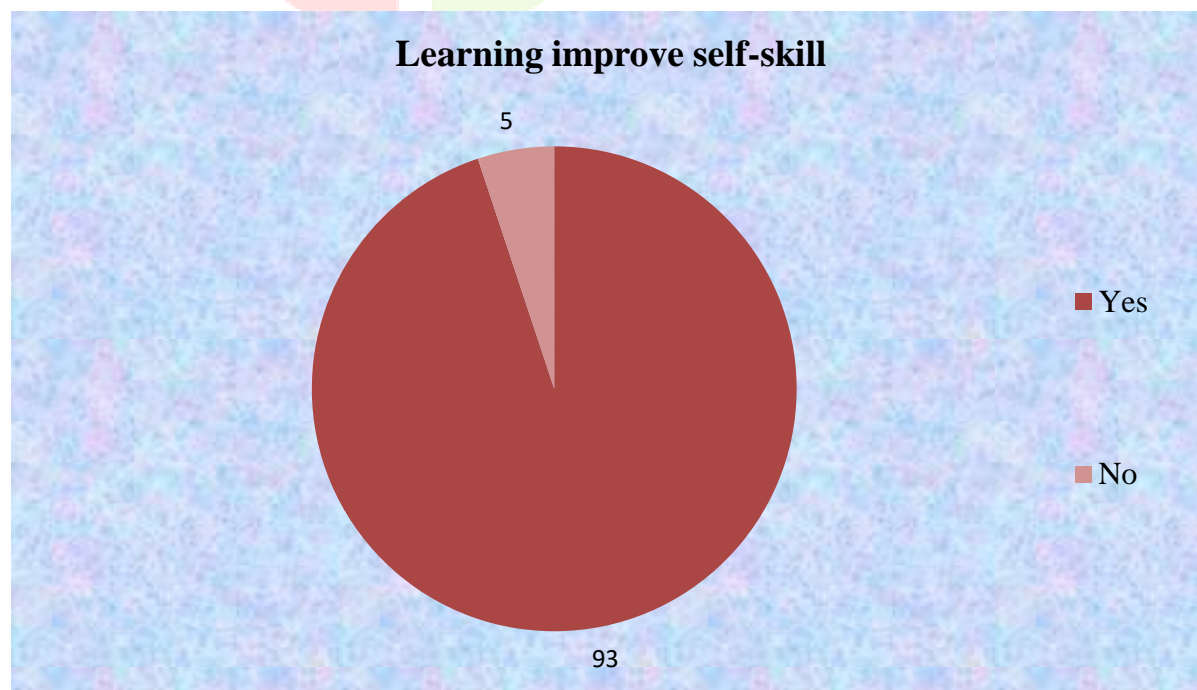


Learning improve self-skill

Table 2

S. No.	Learning improve self-skill	No. of Respondents
1	Yes	93
2	No	05
	Total	98

Table 2 clearly indicates the 93 of the students are prefers learning for improvement of self-skills. 93 students say 'Yes' and 05 students say 'No'. Learning or Online Learning is a very important aspect of Human life.

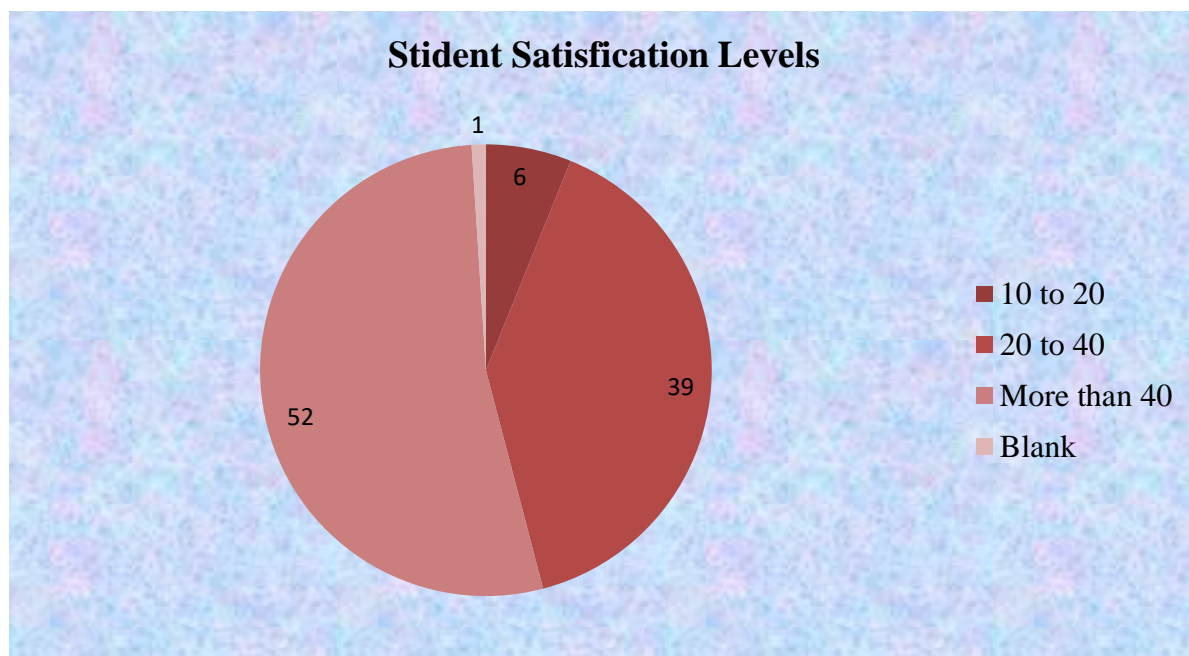


Student Satisfaction Levels

Table 3

S. No.	Satisfaction level	No. of Respondents
1	10 to 20	06
2	20 to 40	39
3	More than 40	52
4	Blank	01
	Total	98

From table 3 it becomes clear that a majority of the respondents (i.e. 52) are satisfying this method. The satisfaction levels of these categories are more than 40 and 39 respondents satisfaction levels are 20 to 40.

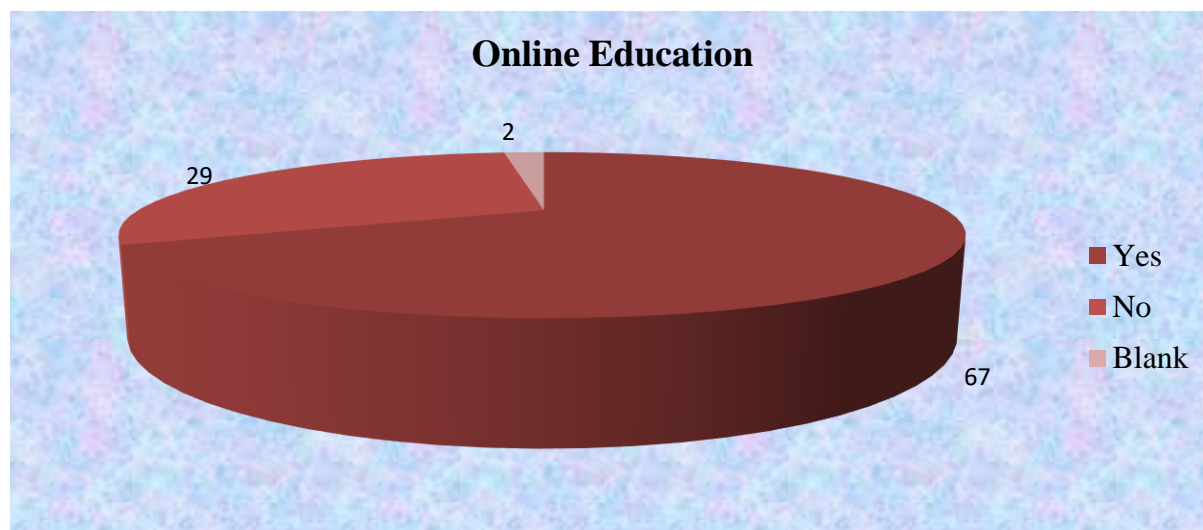


Online Education

Table 4

S. No.	Online Education	No. of Respondents
1	Yes	67
2	No	29
3	Blank	02
	Total	98

Table 4 clearly indicates the 67 of the students are prefers Online Education. He says this learning method is very good and easy to use. 67 students say 'Yes/Good' and 05 students say 'No'.

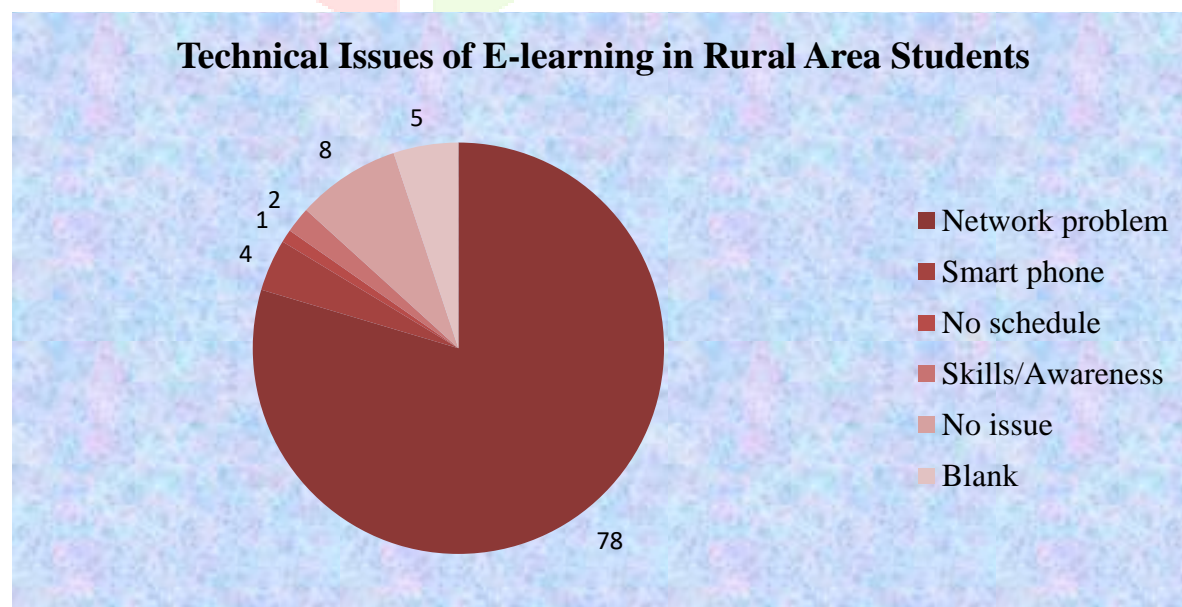


Technical Issues of E-learning in Rural Area Students

Table 5

S. No.	Technical Issues	No. of Respondents
1	Network problem	78
2	Smart phone	04
3	No schedule	01
4	Skills/Awareness	02
5	No issue	08
6	Blank	05
	Total	98

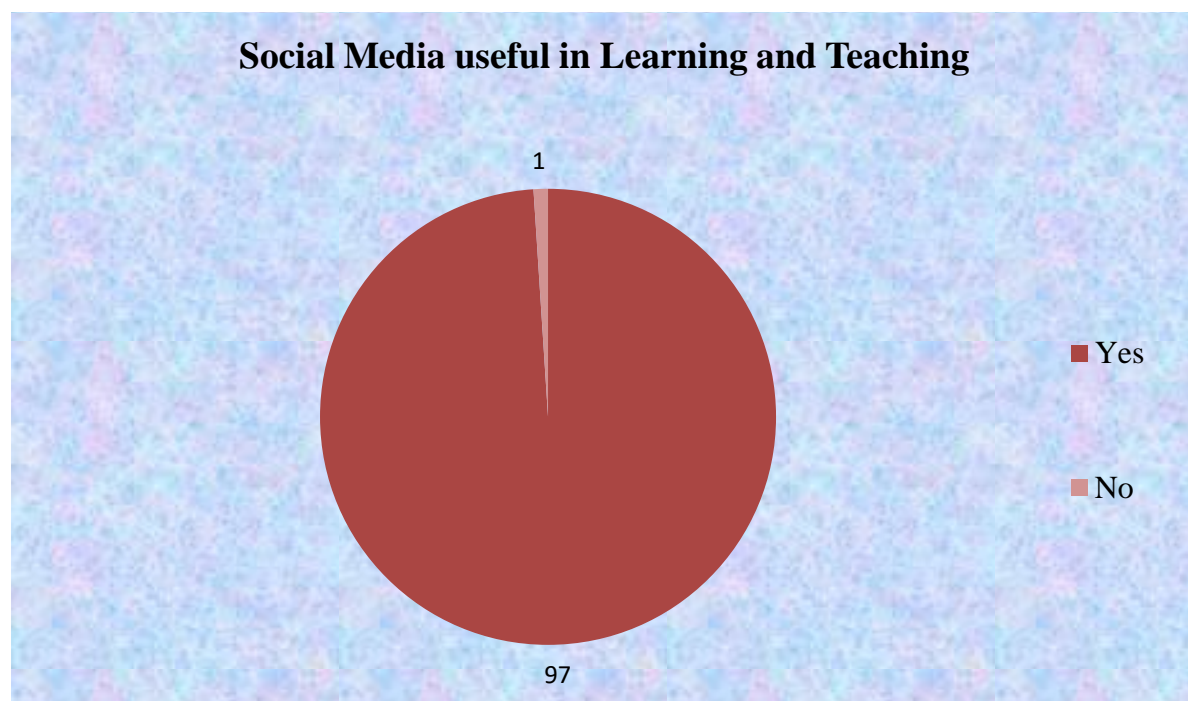
The survey results show that in table 5 reveal that there is lot of technical issues of E-learning in rural area students. Out of 98 respondents, a maximum of 78 respondents are complain about the network problems/internet connection. 08 respondents are saying 'No issue'.



Social Media useful in Learning and Teaching**Table 6**

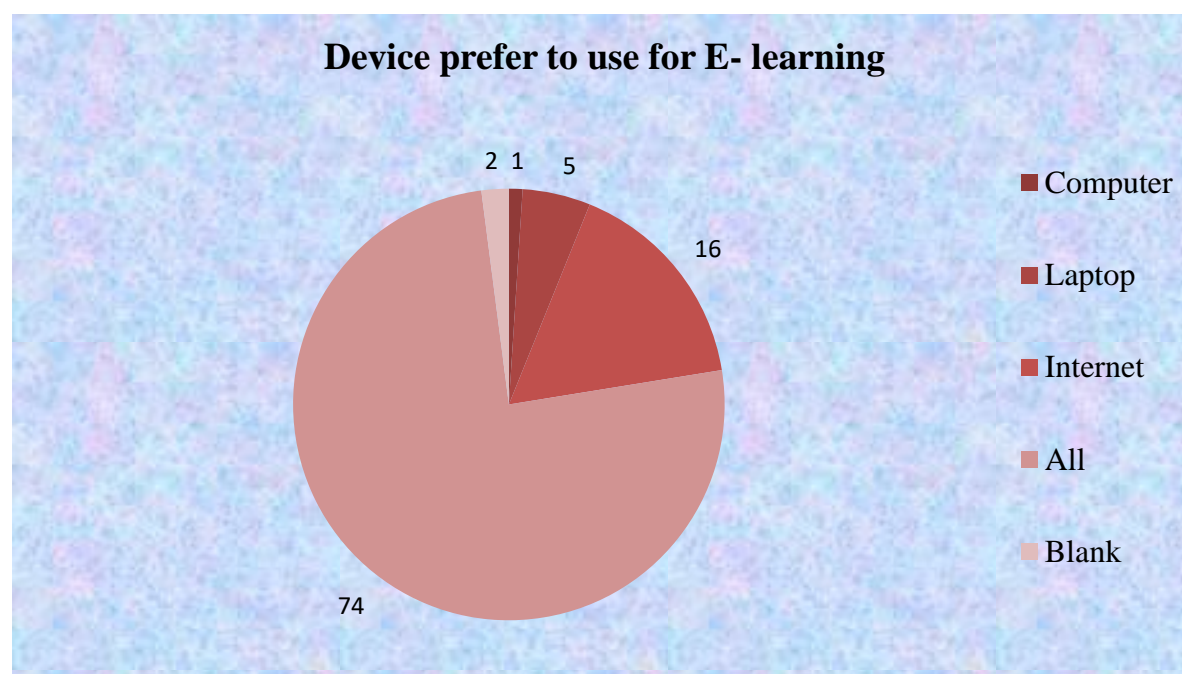
S. No.	Social Media	No. of Respondents
1	Yes	97
2	No	01
	Total	98

Table 6 reveals that a huge amount of students, 97, things that social media are useful in learning and teaching. The results of table 6 show that in the era of information technology and pandemic time.

**Device prefer to use for E- learning****Table 7**

S. No.	Device Name	No. of Respondents
1	Computer	01
2	Laptop	05
3	Internet	16
4	All	74
5	Blank	02
	Total	98

It is evident from table 7 that all devices (Computer, Laptop, and Internet) are widely used as the prime devices for E-learning. 74 of the respondents frequently use computer, laptop and internet. 16 of the respondents depend on internet separately.

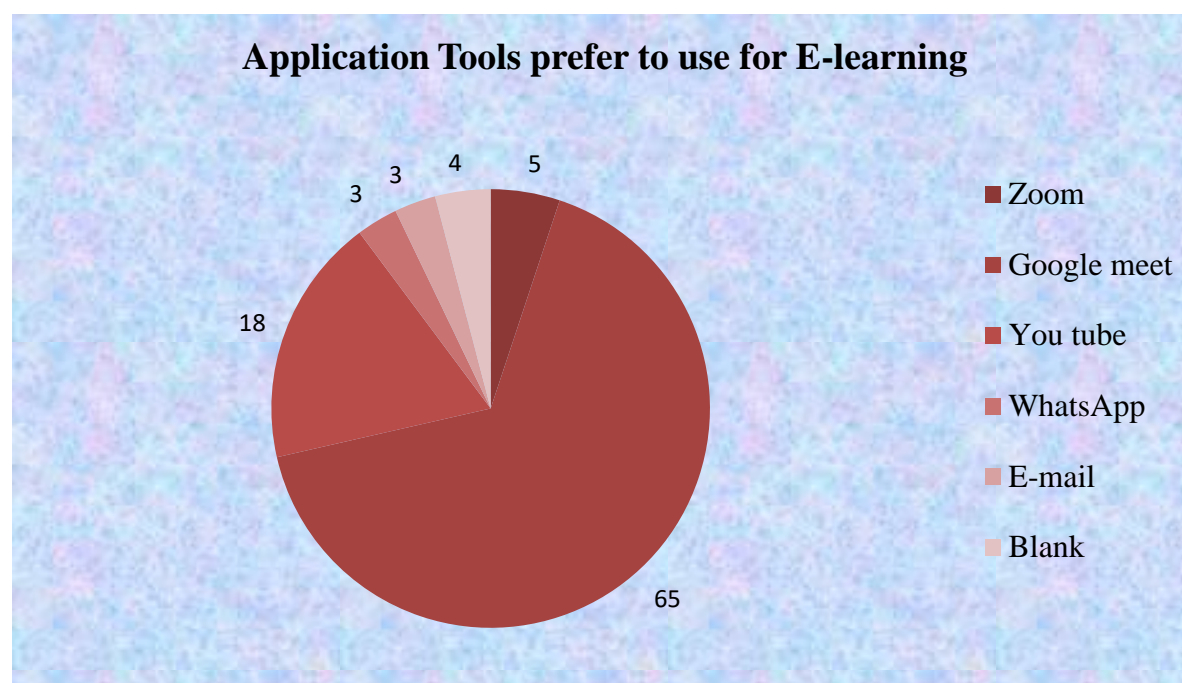


Application Tools prefer to use for E-learning

Table 8

S. No.	Application Tool	No. of Respondents
1	Zoom	05
2	Google meet	65
3	You tube	18
4	WhatsApp	03
5	E-mail	03
6	Blank	04
	Total	98

Table 8 shows that the majority of university students are used “Google Meet” for Online learning and teaching. 65 students are used “Google Meet”, 18 “Youtube” and rest of students are using Zoom, WhatsApp and E-mail.



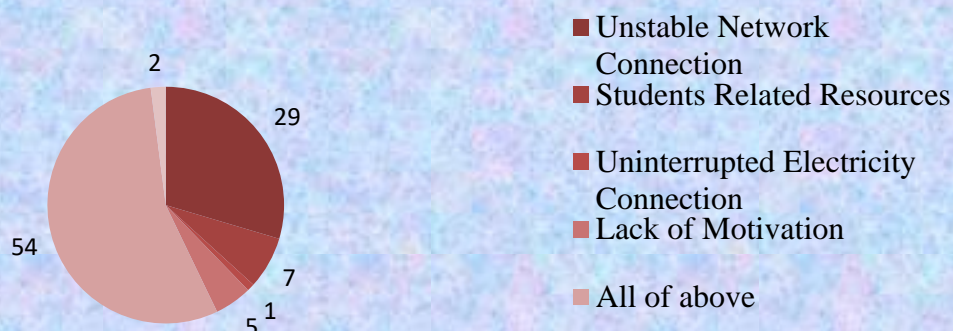
Problem of Online Learning and Teaching

Table 9

S. No.	Problems	No. of Respondents
1	Unstable Network Connection	29
2	Students Related Resources	07
3	Uninterrupted Electricity Connection	01
4	Lack of Motivation	05
5	All of above	54
6	Blank	02
	Total	

Table 9 shows different problems of Online Learning and Teaching. Unstable Network Connection, Students related Resources, Uninterrupted Electricity Connection and Lack of Motivation are main problems of online Learning and Teaching. 54 respondents are facing all problems but 29 are facing Unstable Network Connection separately.

Problem of Online Learning and Teaching



Learning Platform, Ministry of HRD, Government of India

Table 10

S. No.	Learning Platform Name	Response
1	Diksha	02
2	E-pathshala	16
3	NROER	02
4	All of above	65
5	None of the above	08
6	Blank	05
	Total	98

MHRD initiated a number of projects to assist students, scholars, teachers and lifelong learners in their studies. These initiatives cover educational requirements of learners ranging from school to Post Graduate. Table 10 shows the awareness of students regarding learning platform. 65 respondents are aware Diksha, E-pathshala and NROER. 02 respondents are aware Diksha, 16 respondents are aware E-pathshala and 02 respondents are aware NROER separately. 08 respondents are not aware any initiatives.

Learning Platform

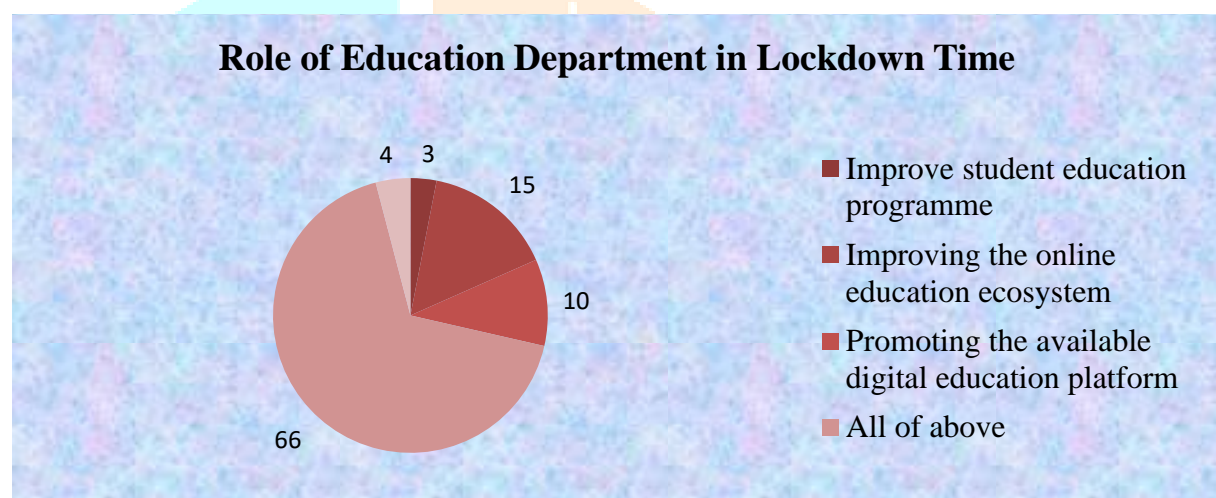


Role of Education Department in Lockdown Time

Table 11

S. No.	Role of Education Department	Response
1	Improve student education programme	03
2	Improving the online education ecosystem	15
3	Promoting the available digital education platform	10
4	All of above	66
5	Blank	04
	Total	98

Table 11 shows that the majority of students are aware “Role of Education department in this lockdown time”. All most students (i.e. 66) are aware of importance of education department, like, improving the online education ecosystem (i.e. 15), promoting the available digital education platform (i.e. 10) and Improve student education programme (i.e. 03).

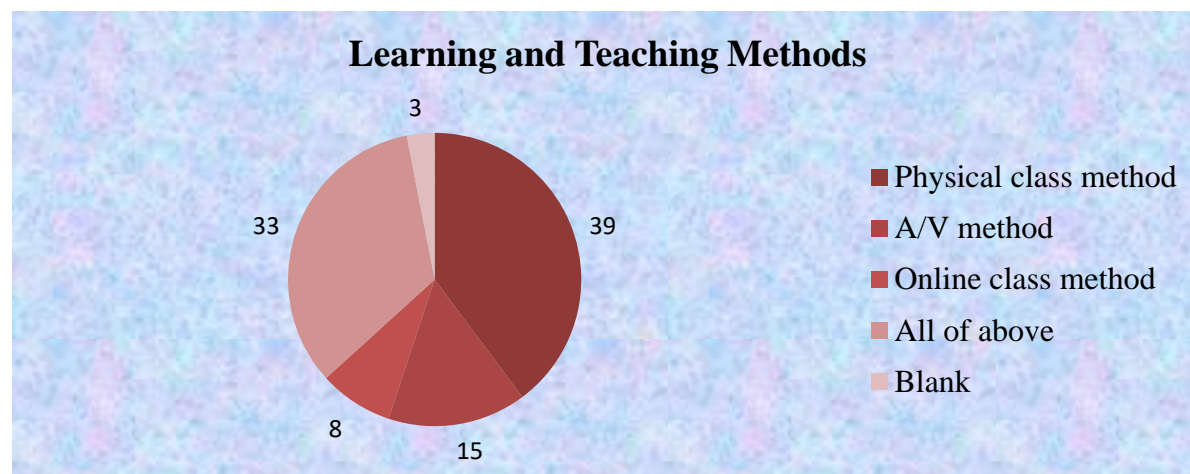


Best method of Learning and Teaching

Table 12

S. No.	Learning and Teaching Methods	Response
1	Physical class method	39
2	A/V method	15
3	Online class method	08
4	All of above	33
5	Blank	03
	Total	98

Table 12 shows that the majority of the students 39 prefer to use physical class method. Second highest preference is A/V method (i.e. 15). Table 1 highlights that only the well-known e-resources are preferably used by the researchers and faculty members, the rest of the e-resources i.e. e-bibliography, e-maps, e-thesis, e-books are comparatively less used.

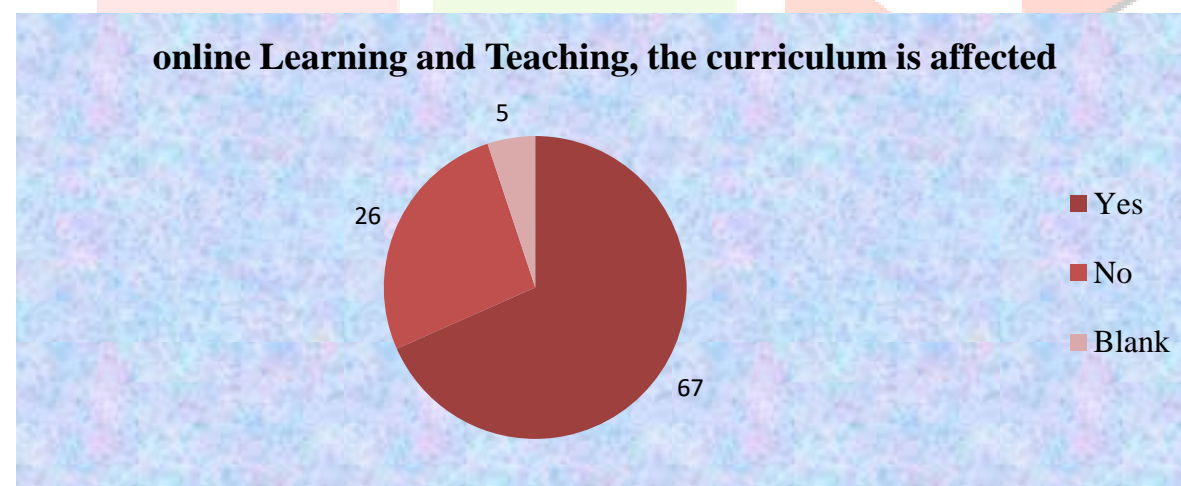


In online Learning and Teaching, the curriculum is affected

Table 13

S. No.	Curriculum is affected	Response
1	Yes	67
2	No	26
3	Blank	05
	Total	98

It is evident table 13 that online learning and teaching is affected university curriculum. 67 respondents are agreed and 26 are disagreed.

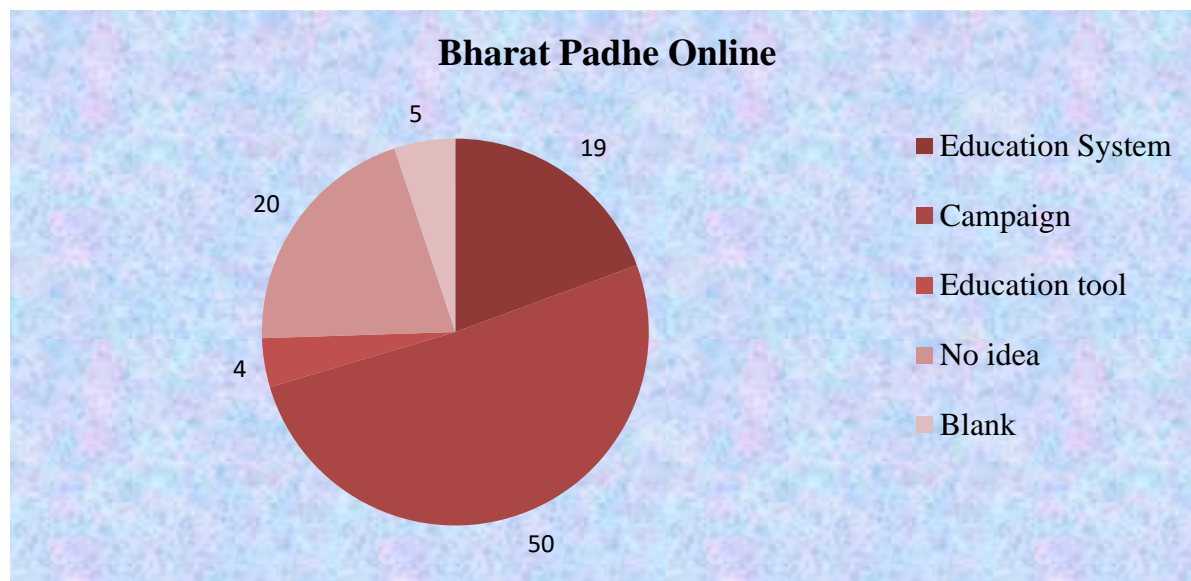


Bharat Padhe Online

Table 14

S. No.	Bharat Padhe Online	Response
1	Education System	19
2	Campaign	50
3	Education tool	04
4	No idea	20
5	Blank	05
	Total	98

Table 14 shows that the majority of students are aware 'Bharat Padhe Online'. 50 respondents are aware this government campaign. It aims to invite all the best brains in India to share suggestions/solutions directly with the HRD Ministry to overcome constraints of online education while promoting the available digital education platforms. Students and teachers are the main target audience in it. 20 students are not aware this campaign. He says "No idea".

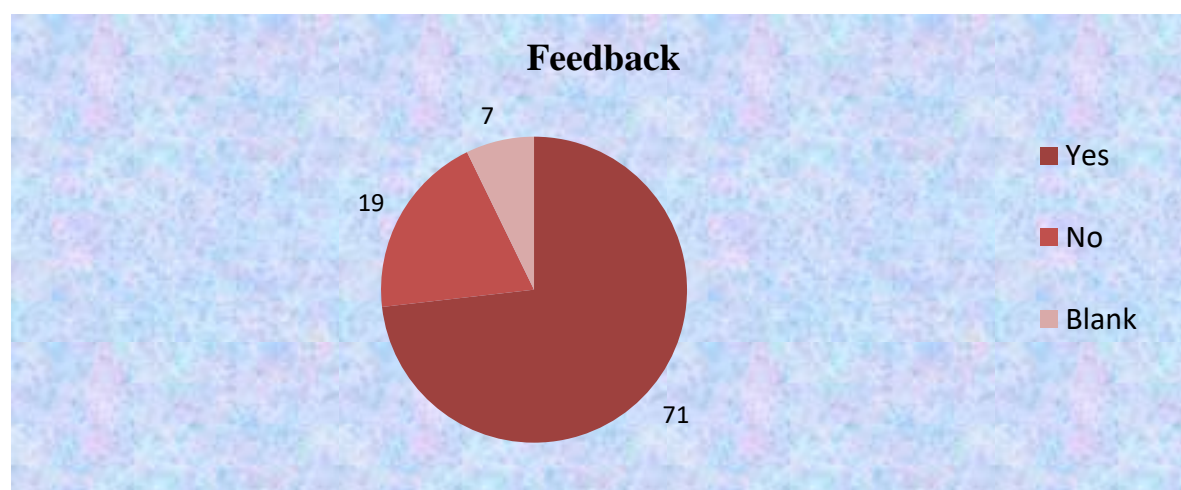


Feedback

Table 15

S. No.	Feedback	Response
1	Yes	71
2	No	19
3	Blank	07
	Total	98

Feedback occurs when outputs of a system are routed back as inputs as part of a chain of cause-and-effect that forms a circuit or loop. The system can then be said to feed back into itself. It is evident from table 15 that Feedback is very important in Online Education. 71 of the respondents are says 'Yes'. Feedback is a very important aspect of Online Education.



Conclusion

Based on the analysis of data, the following findings are made:

- 79 respondents are agreeing of online learning and teaching is a good solution for education in current time.
- 93 students are saying “Learning improve self-skills”.
- All most students (i.e. 52- high satisfaction level) are satisfied. He says “Online education is best”. 67 students are agreeing.
- Network Problem/Internet connection is a very big problem facing students in rural area.
- 97 students are aware social media. He says “Social media useful in learning and teaching”.
- Computer/Laptop and internet is very important device for online learning and teaching.
- Google Meet is a very good application tool for e-learning. 65 respondents are full agreeing.
- Unstable Network Connection is a big problem faced by students.
- 65 respondents are aware of government initiative/learning platform (Diksha, e-pathshala and NROER).
- Most respondents are aware role of the education department in lockdown time.
- The physical class method is the best method of learning and teaching. 39 respondents are agreeing.
- Online learning and teaching are affected to the curriculum. 67 respondents say yes.
- 50 students/respondents are aware of "Bharat Padhe Online" campaign. 20 students are not aware of this campaign.
- 71 respondents say' feedback is an important tool"

From the study, it can be concluded that the entire student's community is aware and satisfied with information technology and online learning & teaching.