An analysis of effectiveness of online mode of teaching and learning process

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ABSTRACT

The Corona virus pandemic has forced us to stay home and given an opportunity to learn new skills and spend the time creatively. As it is important to slow down public movement and break the chain of the Corona virus spread, social distancing is a must. It becomes crucial for us to stay home for this time.so it is possible for us to make use of the time the best way. Which is beneficial to promote e-learning in this COVID-19 Lockdown period. In this study, the researchers aim to investigate students' behavioral changes while learning through online mode. This paper discusses the feedback on students' perceptions regarding the implementation and effectiveness of online education. Findings show that most of the students show the positive perception about online education and agree to learn using the same method in the future if such situation continues.

Keyword *Perception, online education, e-learning, students, motivation, self-learning, distraction.*

INTRODUCTION

Online education offers exactly the same benefits to students as traditional education. We have videos of master classes, contact with professors through email, chats or video chats, and even forums to communicate with other students. Usage of technology for educating is the best way to put internet and technology in use for the development of young minds. While online education has widened prospects for education. E-trainings take around 40-50 % less time than manual training sessions, hence saving time as well as cost of training.70% of the people use their personal devices like laptops and mobiles for work and e-learning. The number is said to increase in 2018.E-learning consumed 90% less energy than traditional learning. An obvious benefit of taking online courses is the amount of time that is saved from not having to physically be in a classroom. College commutes would be cut along with all its expenses: gas money, lunch, etc.

Data collection procedures

This paper reports on a survey on the students at the A total number of 103 students participated in the study based survey. It was a heterogeneous group made up of students from different intellectual level. Google form was created and circulated among students by sharing a link. The students have allotted fifteen days to complete the work. SY DTM and final year DFCT students were given the test.

The questionnaire was prepared by using following   parameters: knowledge, time /social media/ self-learning/online learning conducted by college, health, money, social aspect and distracting factors. All the sections

are clustered by different questions in the questionnaire. In addition to the questionnaire prepared, the students were asked open-ended questions to express the ideas about learning through. Data collection and analysis to be able to evaluate the effectiveness of as a learning method, it was decided to conduct a questionnaire with the students in the class. When the questionnaire was taken, participants had completed their project.

RESULTS AND DISCUSSIONS.

   The basis for the deductions in this study was the data from the questionnaire "The approach to learning and studying through". The findings presented below are about the analysis of the survey of six sub-sections from this questionnaire: Figures present the distribution of surveyed students' answers according to the-section – the experience of the students before learning.

         The students of second year and final year textiles were responded to these questions. Google forms were sent to them.99% students are using mobile for online education and 1% are using laptop for online education.no one is using desk top for this purpose. Many platforms are available like Microsoft teams, zoom meet, Google meet, and webex.97% students are using Microsoft teams and 1% zoom meet.

84% of students are agreed on the point that the class is providing the right amount of theoretical experience to them and 15.5% students are disagreeing about the same.52.4% students have given their positive opinion about that the class is providing the right amount of practical experience and 47.6% had given negative opinion.

49.5% students are neutrally satisfied with the overall understanding of the content delivered through online mode, 24.3% agree and remaining 24.3% strongly agree to the point.

   satisfied with the study material provided through this mode

Device used for online education MOBILE LAPTOP DESKTOP 99%

Fig.1

Platform preferred Microsoft teams, zoom meet, Google meet, WebEx 97.1%
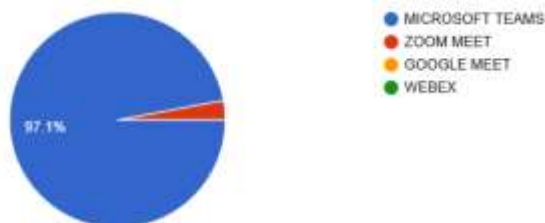

Fig.2

The class is providing the right amount of theoretical experience Yes No 15.5% 84.5%
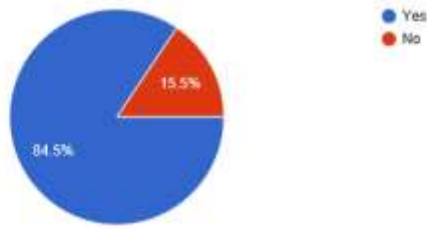
Fig.3

The class is providing the right amount of practical experience Yes No 47.6% 52.4%
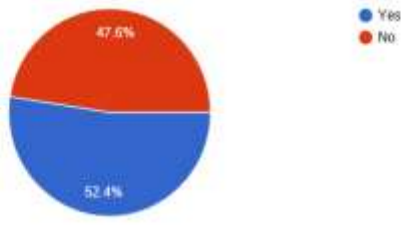

Fig.4

Satisfied are you with the overall understanding of the content delivered through online mode

123458.7% 24.3% 49.5%

Fig.5

Satisfied are you with the study material provided through this mode
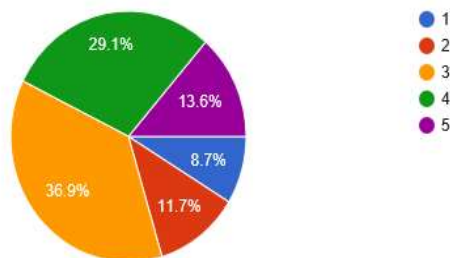
123458.7% 11.7% 13.6% 29.1% 36.9%

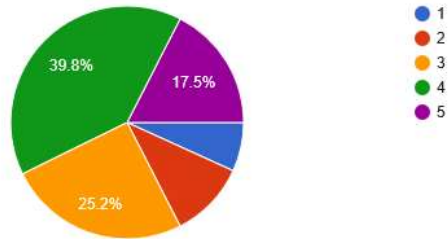Fig.6

The classes were well organized

1234517.5%39.8%25.2%

Fig.7

You are satisfied with online teaching

YesNo41.7%58.3%

Fig.8

Online education is more conducive to cheating

Strongly disagree Disagree Neutral Agree Strongly agree 9.7%18.4%42.7%27.2%
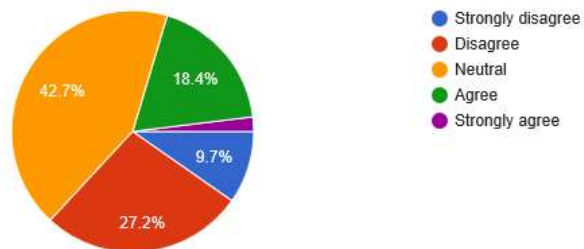
Fig.9

Online education is successful in giving uninterrupted education process

1234510.7%23.3%44.7%14.6%
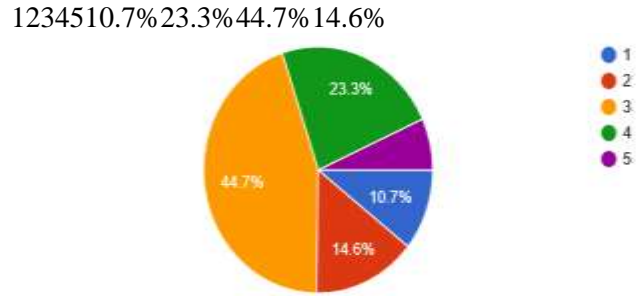
Fig.10

You have enhanced technical skills during online education

YesNo45.6%54.4%

Is it one way or two way process

One way two way 46.6%53.4%

Fig.11

It is giving you comfortable learning environment

YesNo43.7%56.3%
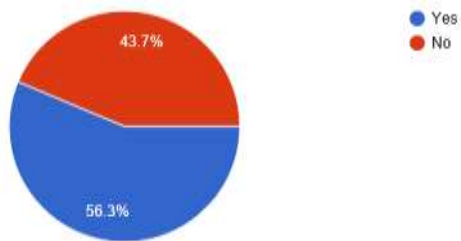
Fig.12

Teacher is fair in their judgment towards every student

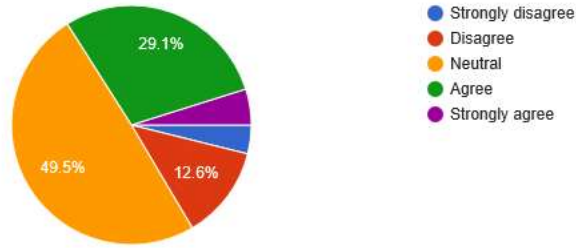Strongly disagree Disagree Neutral Agree Strongly agree 12.6%29.1%49.5%

Fig.13

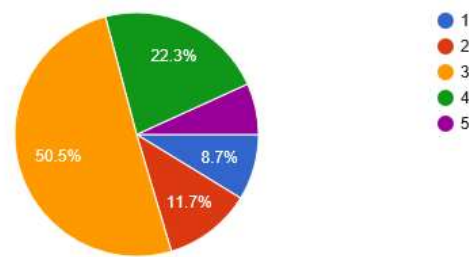Efficient evaluation system is in online education

123458.7%11.7%22.3%50.5%

Fig.14

Online education reaches up to the mark for the growth of your carrier

Yes No 51.5%48.5%

Soft skills were enhanced during online education

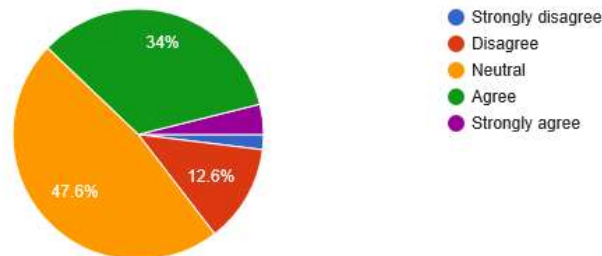Strongly disagree, Disagree, Neutral Agree , Strongly agree,12.6%34%47.6%

Fig.15

It favorable for building good and healthy relation with the teacher and classmates

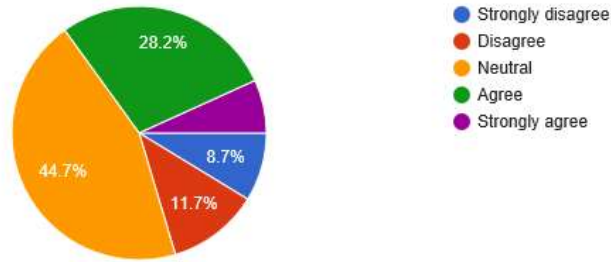Strongly disagree Disagree Neutral Agree Strongly agree8.7%11.7%28.2%44.7%

Fig.16

The online education is frustrating the students due to lack of effective communication between teacher and student

YesNo40.8%59.2%

Fig.17

It is creating a sense of isolation among the students

Yes No 46.6%53.4%

Fig.18

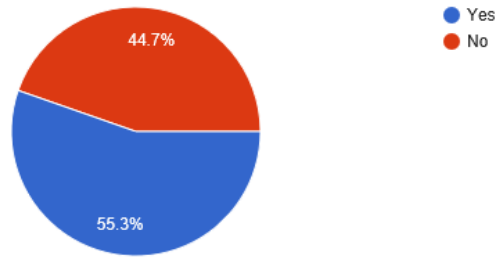 Online education is affecting health

Yes No44.7%55.3%

Fig.19

Whether online education improves self-discipline

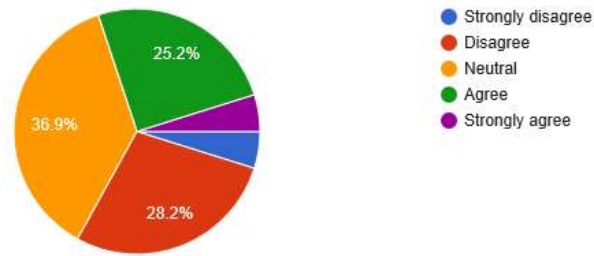Strongly disagree Disagree Neutral Agree Strongly agree 25.2% 36.9% 28.2%

Fig.20

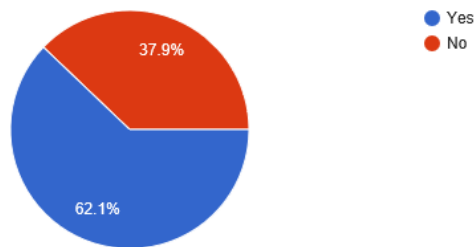Online education requires a higher intensity of self-direction

Yes No 37.9% 62.1%

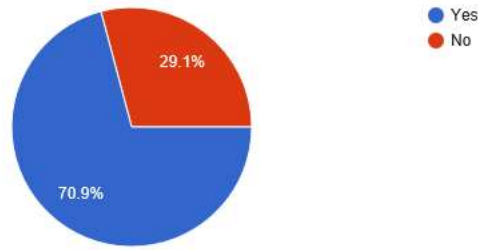Fig.21

Online education is saving your time

YesNo29.1% 70.9%

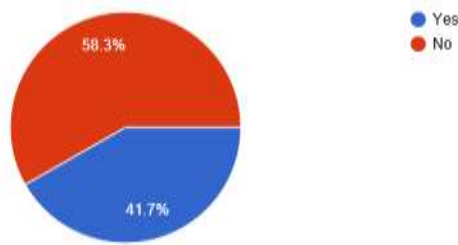Fig.22

Online education is saving your money

YesNo58.3%41.7%

Fig.23

 You are willingly attending online sessions conducted by college
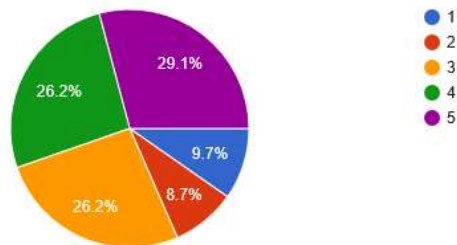
123459.7%8.7%29.1%26.2%26.2%

Fig.24

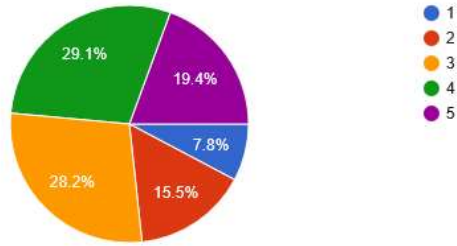Online education is motivating self-learning

123457.8%15.5%19.4%29.1%28.2%

Fig.25

Online education motivates you to refer books to study

Yes No41.7%58.3%
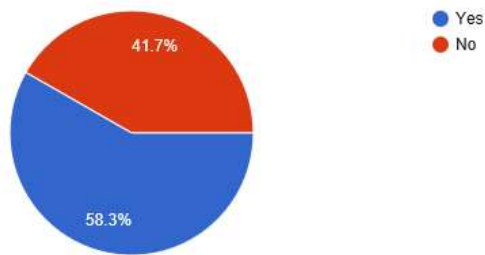

Fig.26

Online education maintains expected speed of teaching -learning
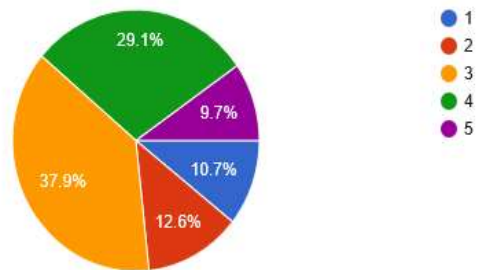
1234510.7%12.6%9.7%29.1%37.9%

Fig.27

Online education is distracting you from learning
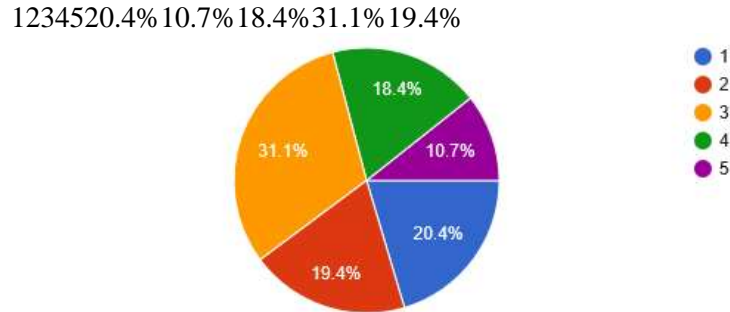
1234520.4%10.7%18.4%31.1%19.4%

Fig.28

"Students do not learn much just sitting in classes listening to teachers, memorizing prepackaged assignments, and spitting out answers. They must talk about what they are learning, write reflectively about it, relate it to past experiences, and apply it to their daily lives. They must make what they learn part of themselves."
- Arthur W. Checkering and Stephen C. Ehrmann

In an online class, each student can take time to carefully and eloquently think of res. to discussions and questions and those who fear public speaking can receive a good grade in participation despite being shy or having to subject themselves to something they are scared to do. With an online class, if a student has a question, they can e-mail their teacher and get a direct response; in a classroom setting a student must raise their hand and wait to be called, if they are called at all.

DISCUSSION AND SUGGESTIONS.

Few students were systematically studying before handling the. They tried to find better ways of tracking down information for better understanding of the subject. While learning through students were encouraged to link the unit under study with other units of the subject. Learning through   encouraged the students to rethink their understanding of some aspects of the subject. Students achieved Knowledge and understood different concepts in the topic through this method Interpersonal skills like team building, leadership, communication, group harmony and critical thinking were developed. Students were encouraged to tackle the set work and improve their ways of learning and studying. Problems they have to deal with were a little bit difficult while performing the project. Organization skill, problem-solving and self-learning approach and time management were fairly achieved.

CONCLUSIONS

After survey we found that the college became more resilient to online learning after that disastrous event. Technology helped them overcome the barriers in those difficult times. But they suggest that robust IT Infrastructure is a prerequisite for online learning. Infrastructure needs to be so strong that it can provide unhindered services during and after the crisis.

REFERENCES

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