Research Paper

Impact of Online Teaching and Learning on the Under-Graduate Students during the Pandemic.

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Abstract:
COVID-19 is a highly infectious disease caused by coronavirus 2 (SARS-CoV-2). It has originated in Wuhan city of China. The coronavirus triggered first phase in the form of nationwide lockdown in India which commenced on March 25, 2020. It has globally put, over 1.2 billion children out of the classroom. This situation challenged the educational system across the world and forced educators to shift to an online mode of teaching abruptly. Many academic institutions that were forced to transform entirely to online teaching and learning. Hence, there was distinctive rise in e-learning, whereby teaching is undertaken through digital platforms.

The lack of digital tools is a major drawback amongst students, there is difficulty in understanding, social isolation and poor communication skills. The impact of the virus was so strong that online education became an omnipresent part of education, resulting in no further physical interaction of teachers with students. Due to the lockdown, students have not connected with the outer world resulting in lack of exposure. Since, students have been introduced to virtual platforms it made them well versed with technology with digital identity.
On the other side of education i.e., the teachers, were greatly benefitted by teaching online, in such a way that it has increased their awareness of students' needs and methods to create engaging activities. Few teachers, realised it is easier to teach face-to-face after teaching online, while other teachers disagreed and faced challenges when returning to the face-to face classroom. The student teacher rapport has been affected very badly as the whole surrounding has drastically changed on account of unprecedented advent of pandemic. This research paper makes analysis of Impact of Online Teaching and Learning on the Under-Graduate Students during the Pandemic.
Key words: Pandemic, Lockdown, Online Teaching and Learning, Challenges, Isolation.

Hypothesis:
1. E-learning creates a creative ambiance on the students and teachers.

Research Methodology:
The researcher used both quantitative and qualitative methodologies in order to study the perceptions of stakeholders based on the online teaching-learning process among undergraduate students during covid 19. The researcher has also conducted physical interaction with teachers, students as well as parents, for the purpose of understanding various nuances of online teaching and learning scenarios.

The researcher has specifically constructed a brief questionnaire for students, teachers as well as parents. The questionnaire designed for the students focuses on the conveniences and inconveniences faced by the students during the process of online learning. With regards to teachers, it highlights the challenges in terms of adaptability with the technology, interacting during online sessions, preparation of material for conducting online class along with making the class interesting and effective. The parent's questionnaire is an embodiment of the impact of online learning teaching and learning amongst the students.
(i) Total responses from students: 354, (Age range: 18-23)
Out of which responses were received from students belonging to the following streams:
1. Faculty of Arts 27.7%, Faculty of Science 45.2%, Faculty of Commerce 22.3%, Faculty of Engineering 2.3%, Faculty of Design 0.6%, Faculty of Law 0.3%, Faculty of Medical 0.3% And, 1.4% from other Faculties.
2. (ii) Total responses from Teachers: 39, (Age range: 21-50) Out of which responses were received from teachers specializing in the following study area: Field of languages, Field of Information Technology, Field of Science.
3. And they had students from the following streams: Faculty of Science 46.7%, Faculty of Arts 23.3%, Faculty of Commerce 10%, Faculty of Design 3.3% And other faculties 16.7%.
(iii)Total responses from Parents: 116
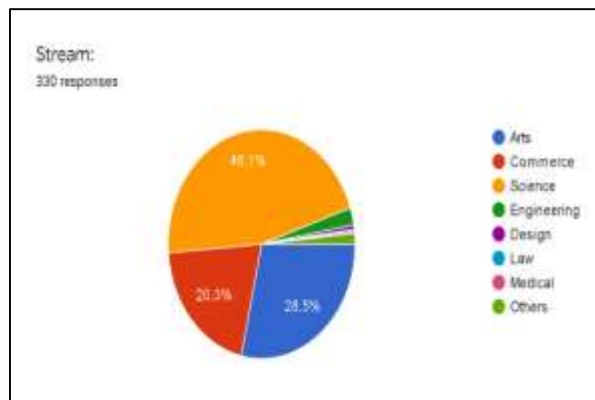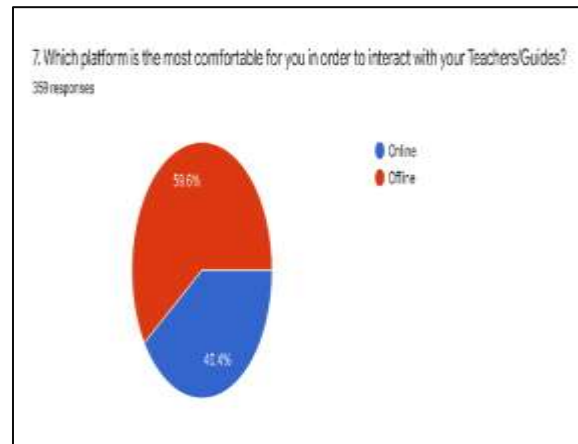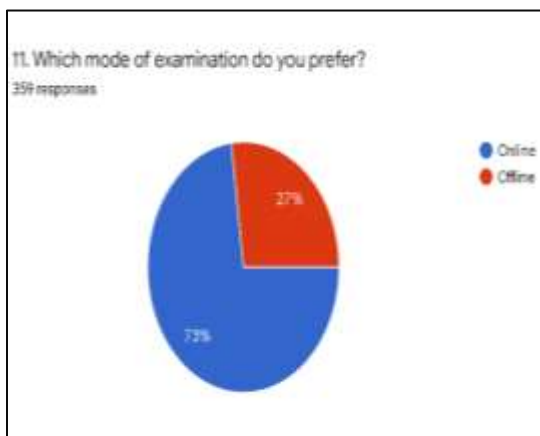Out of which responses were received from parents who had the following profession:
1. Working crowd 34.5%, Home-makers 25.9%, People owning a business 16.4%.

Preliminary Work:
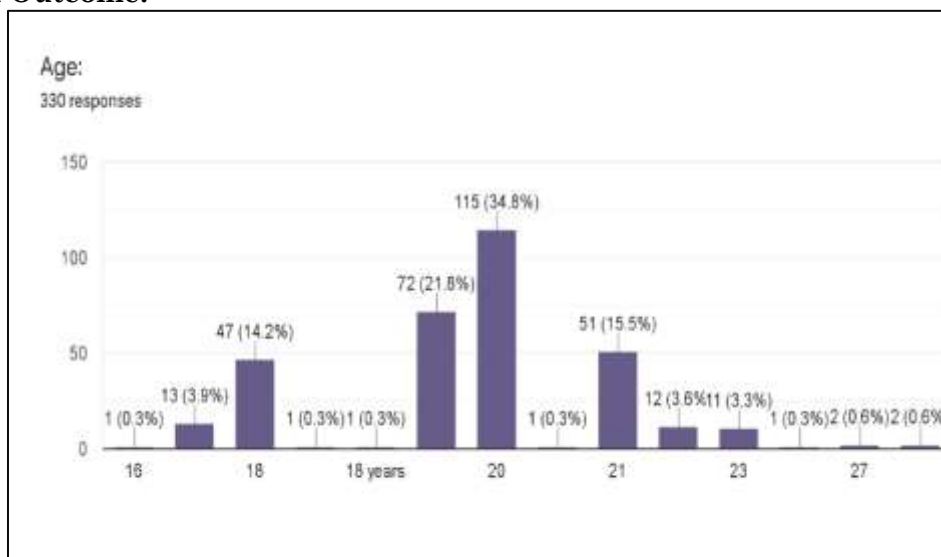This research conducted a comprehensive comparative study of available e-learning platforms and analysed primary data collected

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through an online survey of 500 stakeholders from various colleges and institutions. The researchers used multiple methods, including interviews, forms, reference books, journals, and research papers, to gather information and understand the perspectives of parents, teachers, and students on online learning. The study focused on undergraduate teaching and learning methods. By predicting and comparing the viewpoints of students, teachers, and parents, the research aimed to identify bottlenecks in online learning. The researchers finalized Google Forms as the survey platform for collecting quantitative data. The research ensured ethical considerations by obtaining informed consent from all participants and avoiding personal health information or sensitive data in the questionnaires.
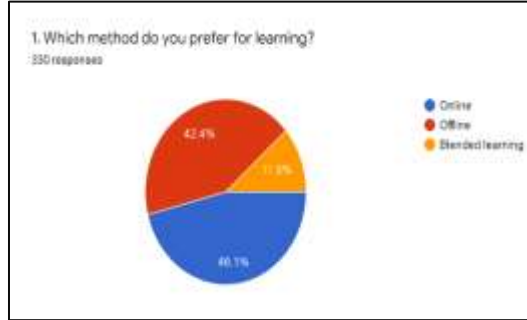

E Xpected Outcome:
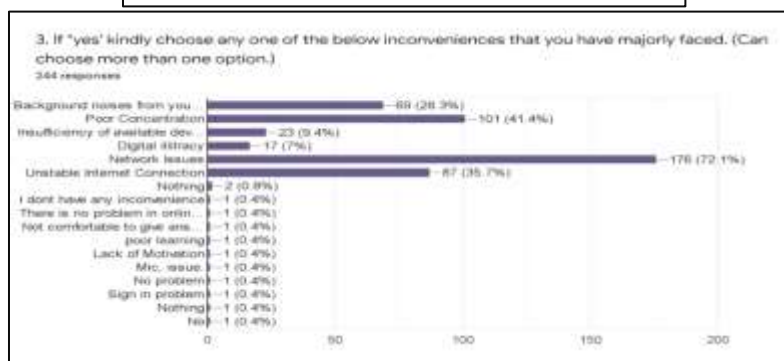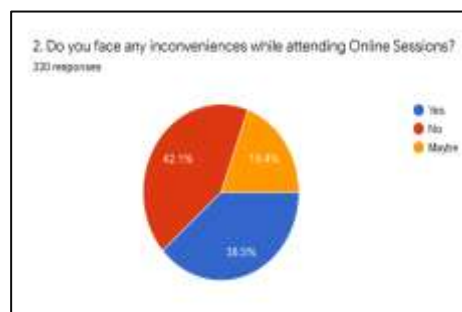
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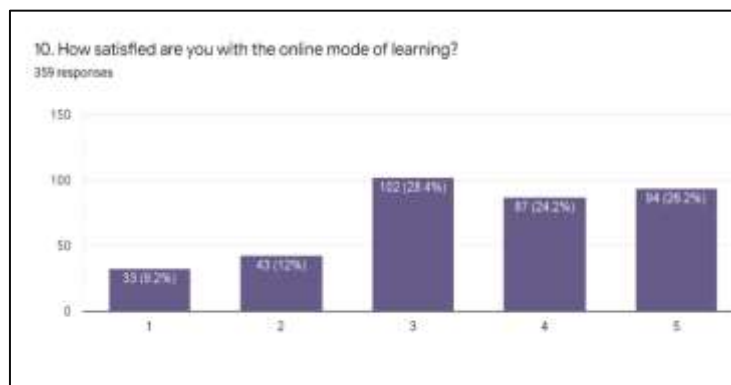**Results and analysis of the questionnaire for students.**

From the age range of 18-23, the maximum respondents were around the age of 20. Most of the respondents belonged to the faculty of science while the least responses were received from the faculty of Law and Medicine.
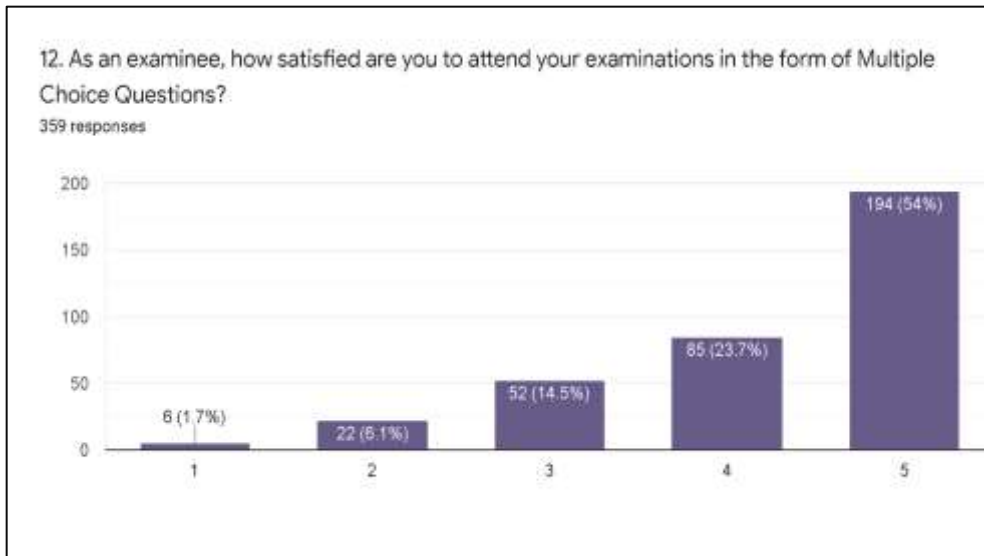

According to the survey 46.1% students preferred learning online; but the received numerical are very close to their preference of offline learning that 42.4%. The survey also showed that maximum students did not face as such any inconveniences.
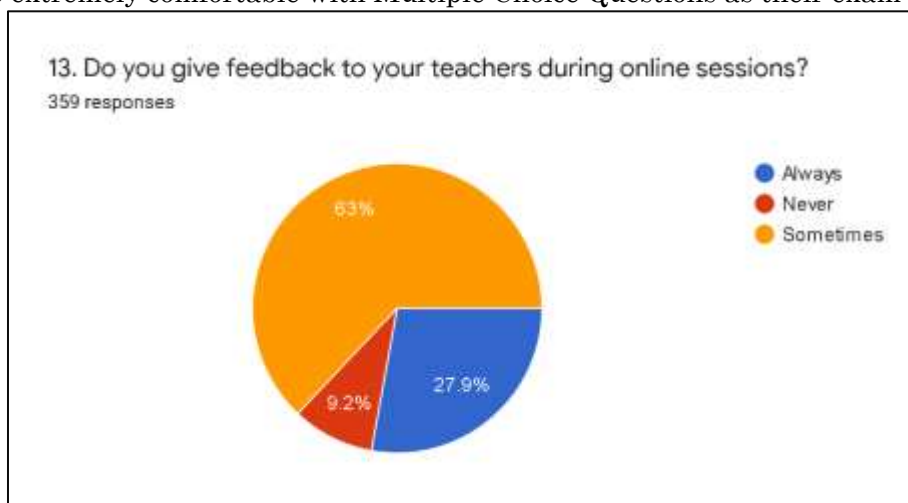

From the given inconveniences the students faced the issue of network the most.

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12. As an examinee, how satisfied are you to attend your examinations in the form of Multiple Choice Questions?
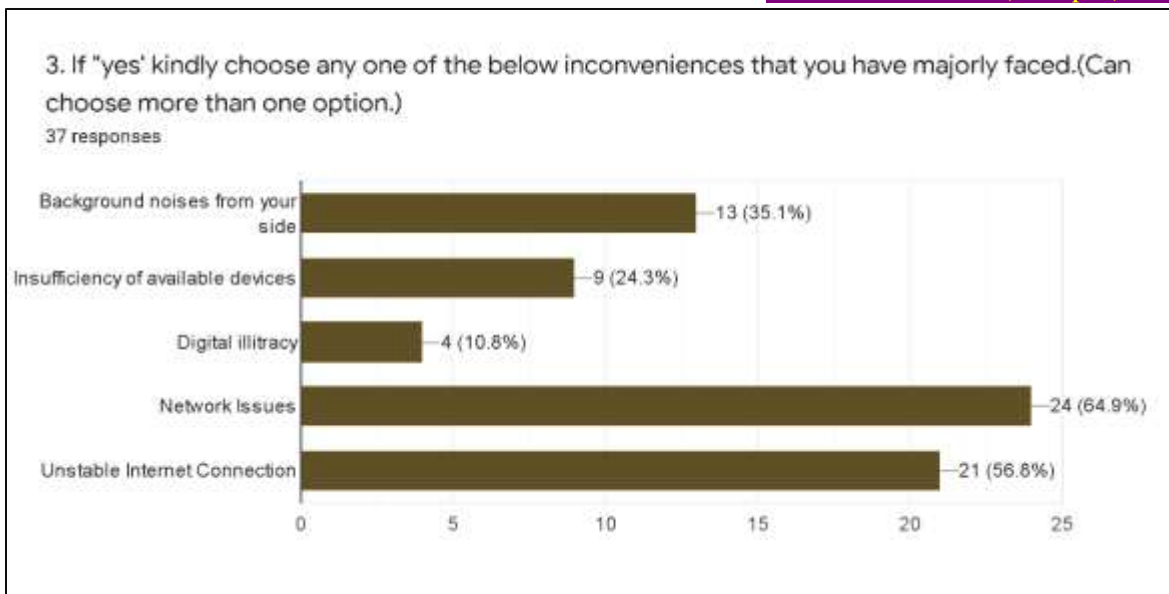359 responses

From the above data we can conclude that moderate responses are received from the students which can be seen in the favour of online learning. Even from the examination point of view students are extremely comfortable with Multiple Choice Questions as their exam mode.

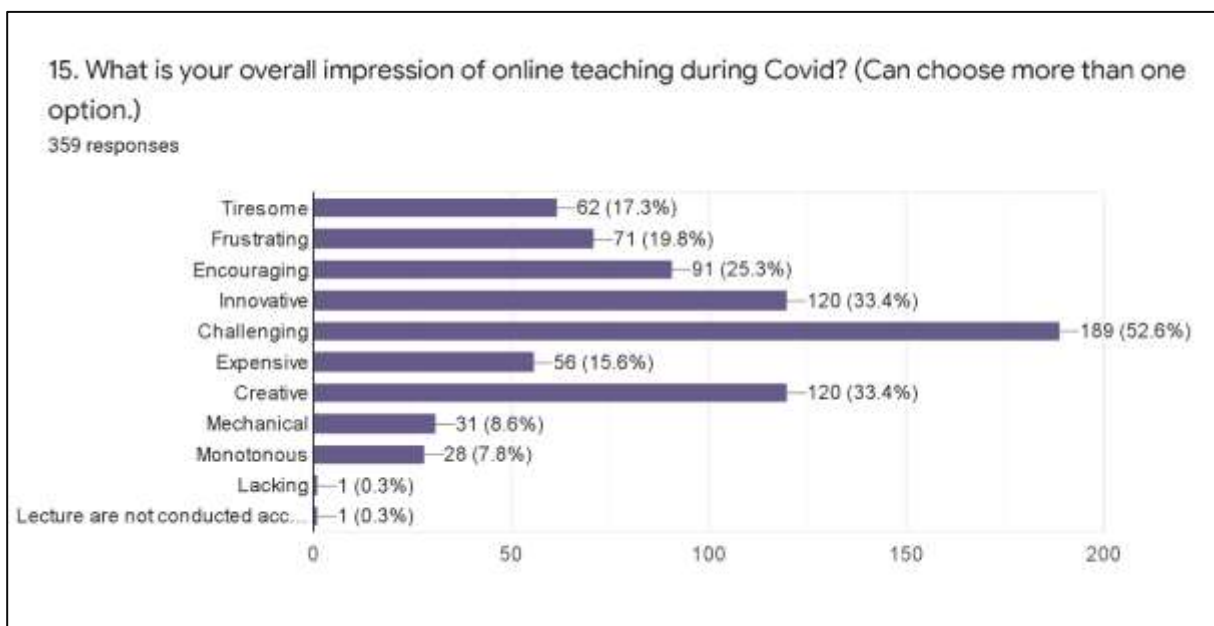13. Do you give feedback to your teachers during online sessions?
359 responses

From the above data we can observe that students believe that their skills are moderately being developed but the responses lean more towards the response that their skills are being developed.

14. To what extent do you believe that your skills are being developed through Online learning?
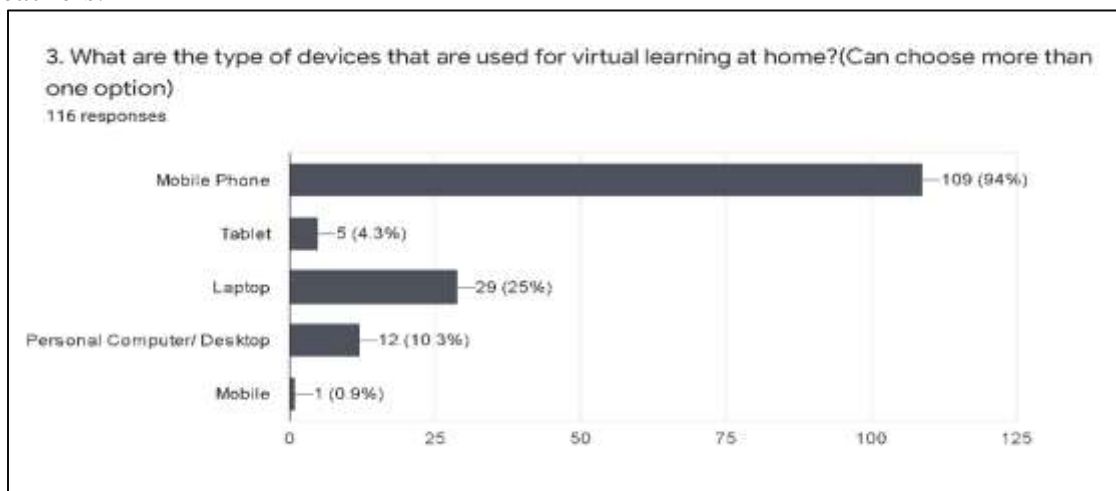359 responses

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According to the above graphs students believe that online method is challenging, innovative, creative, and encouraging.
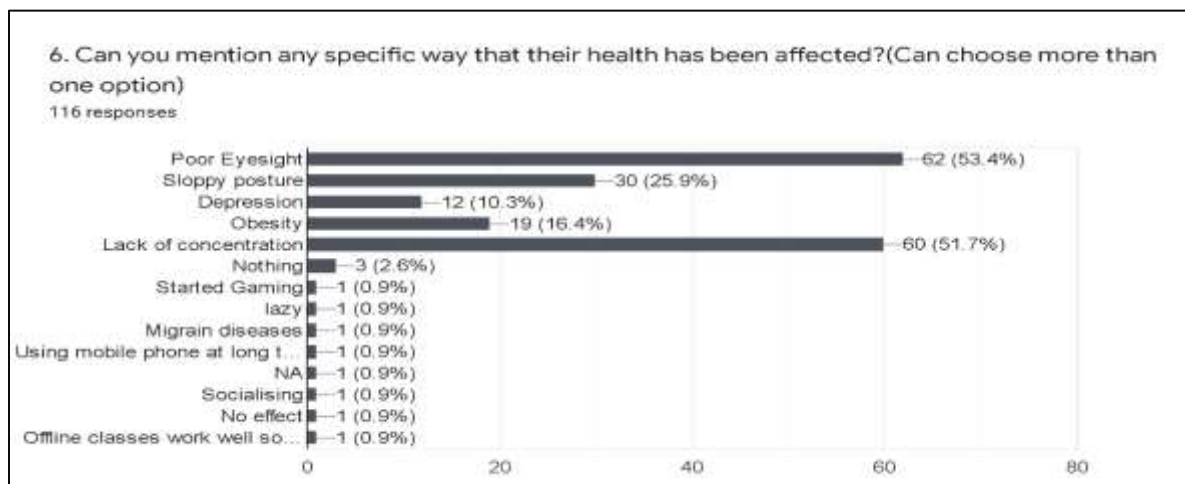

Results and analysis of the questionnaire for Teachers.

Results and analysis of the questionnaire for parents.

From the above graph it was observed that network issues is the major inconvenience faced by the teachers.

6. Can you mention any specific way that their health has been affected?(Can choose more than one option)
116 responses

Conclusion:

In this way, an attempt has been made to explore impact of online teaching and learning on the under graduate students during the pandemic.

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