

Comparative Study based on the Effectiveness of Online & Offline Learning Outcomes

Dr. Venugopal Narsingoju,

Assistant Professor, MES's Institute of Management and Career Courses (IMCC), Pune

Ms. Bhavana Narsingoju,

Principal, Symbiosis Junior College, Pune

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Abstract: In March 2020, Covid-19 is declared as the Global Pandemic and affected all lives, processes, systems adversely. The biggest question and challenge for Indian Education System was to switch from Traditional teaching learning pedagogy to Online Mode of Teaching. Technology has mostly changed everything but sometimes drastic changes may not give good results. This research paper has presented the comparative study based on the Effectiveness of Online and Offline Learning Outcomes. Survey is conducted to understand various aspects of Online and Offline Teaching Learning pedagogy. Students reported their problems and learning outcomes which can be easily demonstrated. The comparative study will be helpful for the operational, qualitative and quantitative Learning outcomes and will also ensure for the effective Learning outcomes.

Keywords: Covid-19, Pandemic, Education, Technology, Online, Offline, Pedagogy.

Introduction:

In the age of technological advancement; there are many educational institutes who has initiated Virtual Classrooms, Smart Classrooms pre Covid only. With the changing era of technology and pandemic crises when we have to shift for everything from Offline to online. The change in the teaching learning from traditional teaching of Chalk and Talk to Smart classes and then to totally online classes has shown 360 degree changes, but with this 360 degree changes the revolution which need to happen in terms of training mind-set of students, teachers and society will definitely may be slow process. Mask, Sanitizer, Social Distancing has taken daily needs roles and the most important is Mobile which is proved as the tool for teaching, like blackboard, chalk, marker etc. the need of new teaching learning era is the Mobile phones and Internet. But, yes we need to evaluate the learning outcomes.

As, the objective of education is learning not only teaching. In this research paper we have collected responses of all students from different ages and tried to take out real Learning outcomes and difficulties of students are also considered, based on which teachers can modify the teaching methodology.

Background:

Methodology: To compare Effectiveness of Online & Offline Learning Outcomes, we have conducted Survey via Google forms. Various parameters are evaluated and responses collected based on the queries raised.

Result: From the survey conducted we have recorded responses and the results are shared as:

The reports available are from the responses collected from more than 500 students. The various ages who have participated in the survey are as follows:

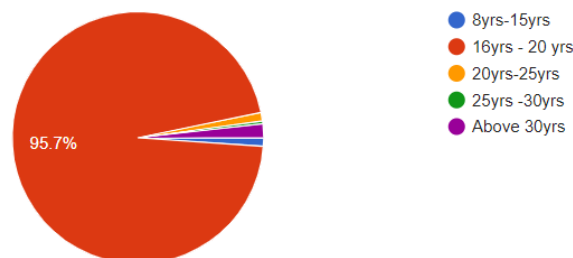


Diagram 1: Various ages participated in Survey

After conducting Survey from various ages who have participated in the comparison study for Online and Offline study it has been observed that maximum students who belongs to age group 16-20 years are actively attending Online Classes and 95.7 % of students belonging to age group 16-20 years participated in this survey.

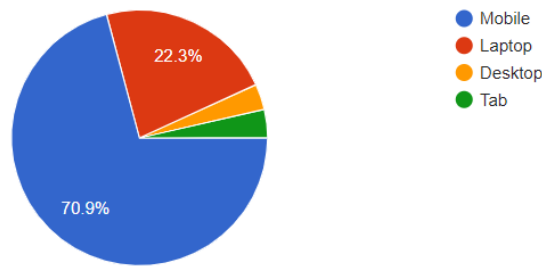


Diagram 2: Usage of device for Online Classes

From the above analysis, Maximum number of students who have used Mobile phone to attend classes Online. The percentage of students who are attending online classes through Mobiles is 70.9 % and second largest scope for the use of devices is for laptops which is 22.3%.

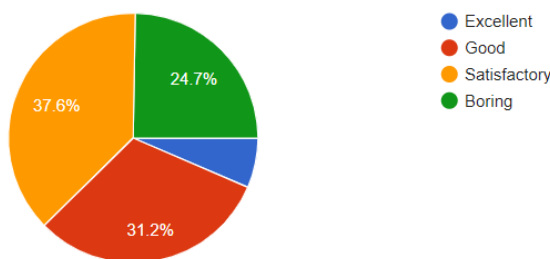


Diagram 3: Interest in Online Classes

From the above comparison, it is observed that even though it's been nearly a year for Online Classes and Studies but students are unable to develop their interest in the online classes. Maximum percentage i.e. 53.8 % students are showing interest for Offline Classes whereas there are mixed reactions for Online classes.

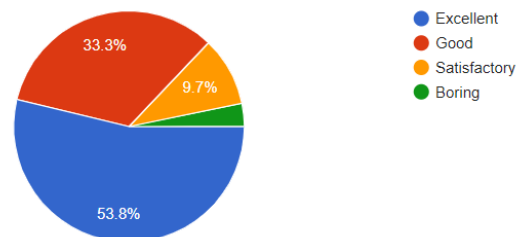


Diagram 4: Interests in Offline Classes

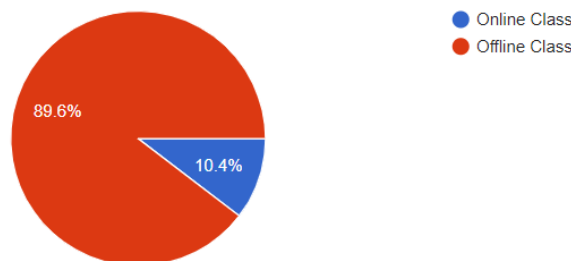


Diagram 5: More understanding

There is a big difference observed in the understanding of students. Largest percentage of students i.e. 89.6 % have selected that there is more understanding in Offline Classes.

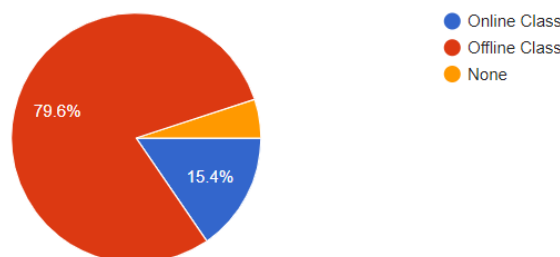


Diagram 6: Expression of thoughts is more

Teaching and Learning comprises for expression of thoughts and students are not happy to express their thoughts in Online Class. There are 79.6 % students are saying that there are more chances of expression of thoughts for Offline Classes and only 15.4% of chance in Online Classes.

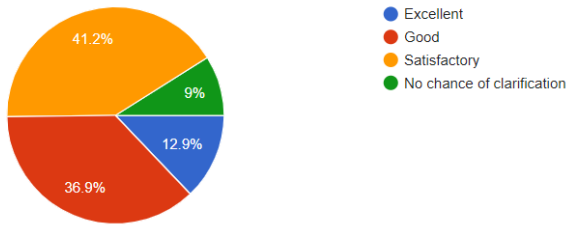


Diagram 7: Clarification of Doubts in Online Classes

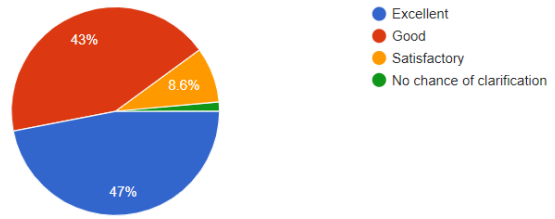


Diagram 8: Clarification of Doubts in Offline Classes

From the above comparison doubts can be cleared in Offline classes comparatively to Online Classes. There are 47 % of students who are showing excellence in doubts clearing sessions.

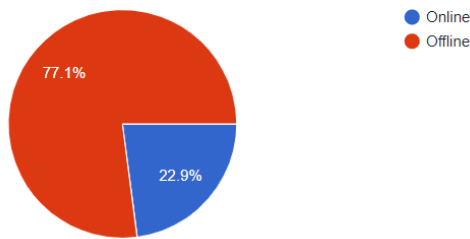


Diagram 9: Good Demonstration

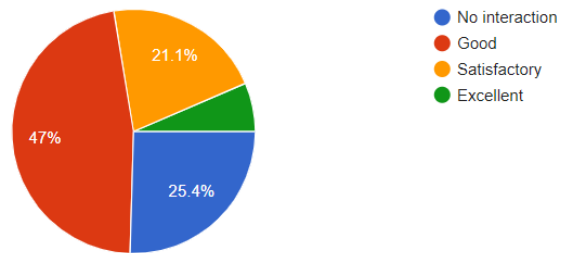


Diagram 10: Peer Interaction

From the above comparison if there are comparison on online and offline platform we can check that there are 77.1 % students who shows that Offline platform is good to understand demonstration and same for Peer interaction.

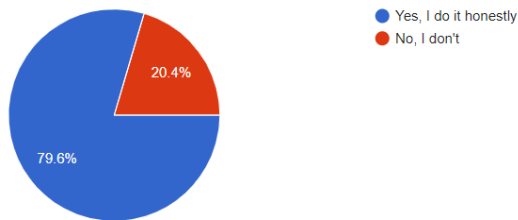


Diagram 11: Homework and Assignment Completion

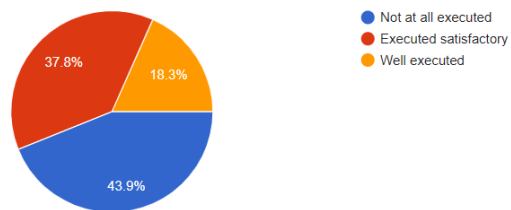


Diagram 12: Health and Physical Education

In classroom teaching we can check for the Homework completion and assignment physically but in in Online mode students are completing assignments but there are some students who are not doing it as it is online. The biggest loss is for the Physical Health of students, online classes has increased the screen time and all of their activities stopped resulting into lower immunity.

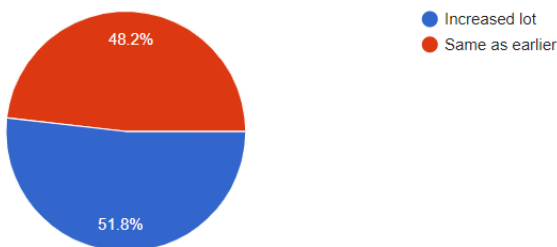


Diagram 13: Internet Charges

Internet is now the one more basic need which has added into our life for this Online Education. After conducting Survey 51.8 % of students are saying that Internet charges increased a lot while 48.2 % students are saying it same as usual.

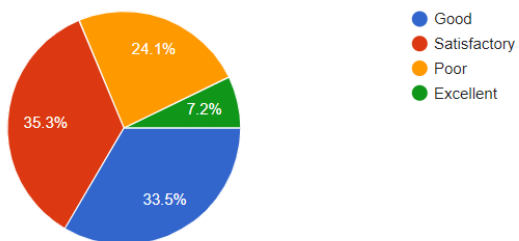


Diagram 14: Understanding of Practical

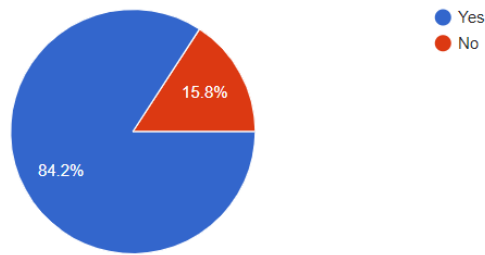


Diagram 3: Space was available at Home to attend Class

During Lockdown it has been observed basically that there are parents who are working online, there are students who need to attend classes online so separate rooms availability may have issues but yes 84.2% students are saying that it can be manageable.

Conclusion:

After checking results from the survey conducted it can be observed that there are maximum students who want offline classes to avoid various issues in terms of Understanding, Practical knowledge, demonstrations, to have proper completion of assignments, to enhance health, to solve more doubts etc. Traditional teaching has been replaced by virtual or online classes but there are no substitutes for teachers and classrooms. Physical Classroom teaching is more useful for students to have overall development.

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