

An Empirical Study on Use of Innovative ICT Pedagogies and its Challenges Faced by Management Teachers of Nagpur City

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Abstract: *The world today has become techno savvy & the individuals have become technophile. From ordering grocery for our day to day requirements to booking an appointment with a doctor is now easily been possible only because of technology. In last two years the education sector has also experienced the tremendous need of technology to be in the race. The Covid-19 had made many of us unassisted due to lack of knowledge of using technology. The pandemic has set back learning of many students across the globe. As a saying goes Necessity is the Mother of invention, many new tools were used to fill in the gap between a teacher and a students. Today there is barely any field left where technology is not being used. Seating at one location, it has become easy to acquire knowledge & skills from other distinct place with one click. ICT based learning tools has made the learning and understanding process easy from the primary level to the higher education courses. This paper focuses on the different ICT tools used in 21st century, the challenges faced by the teachers and the outcome of this learning.*

Keywords: ICT Tools, Quality Education, Technology

I. INTRODUCTION

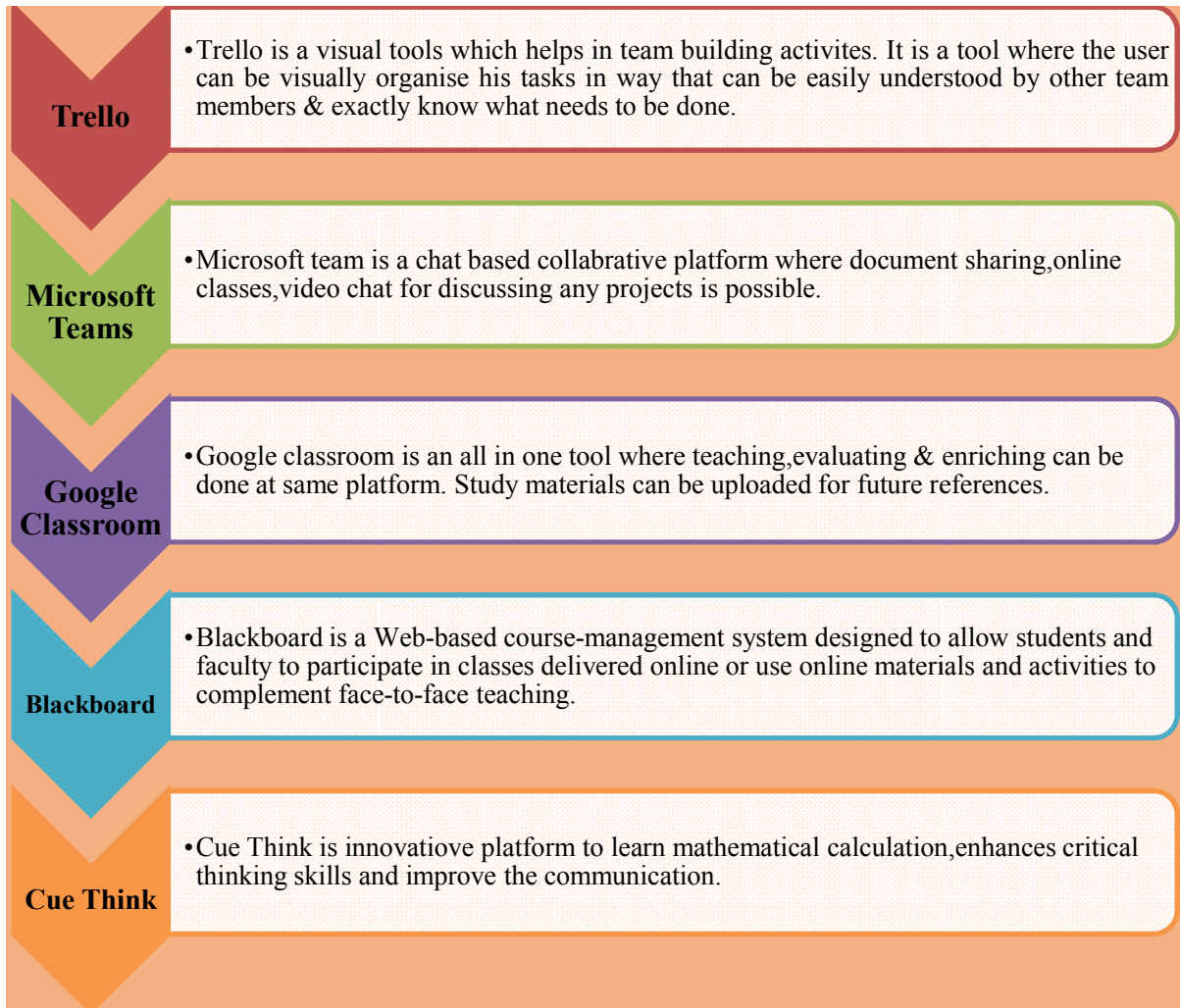
Education has the power to change anyone & a good teacher can change everything. Teachers are like a Compass to show the right path in life. Education is our passport for future. Right education can turn weakness into once strength. Internet has connected people globally. Everyone is participating the communication process and give their inputs in the form of text messages, videos, photos or charts. The biggest beneficiaries of this is the student community. As the ICT tools as more preferred by the students group, it is likely found that they are taking the ownership of learning what they want to. This can enhance the teaching & learning experience and deliver a quality education.

1.1 Meaning of ICT

Information & Communication Technology word itself implies that this is a platform where enormous information about many things can be easily communicated to any person seating at any corner of the globe. IOT has been the integral part of every one's life. From the time we wake up till the time we go to bed in night we all are associated with the gadgets. ICT gadgets includes from digital infrastructure like laptops, printers, computers, tablets to software tools like google classroom, spreadsheets, blackboard etc.

It has been proved by many researchers that visual learning will have long memory impact on the learners. It is observed that human tends to keep intact memory of what has been visualized by them in comparison to the audio learning. These tools help the student to visually experience the topic or the subject and help them to think accordingly. It also helps in developing the imagination power in student and as well as taking initiatives. So many animated study material are available now a days which helps the students to acquire knowledge with different IQ levels. Advanced explanations are also available for the students who want to research more about a particular topic. Concept wise things get clearer & interest to learn more gradually develops in the students.

Some commonly used tools for teaching & learning methodology are as under.



II. LITERATURE REVIEW

Ms. Renu & Ms. Kiran (2016) in the study titled Innovative use of ICT in teaching & learning analyzed the innovative use of teaching & learning tools which can make the learning process more interesting. ICT tools enhances the analytical skills as learner’s starts taking much interest in the subject of his interest. This makes the learning process a fun way and in return it develops a keenness to learn & acquire more knowledge. In their paper they have discussed the significance of technology in learning & teaching and the varied dimensions. Benefits of using ICT tools in teaching process is also discussed.

Ms.Priyanka Patel & Ms. Nehal Patel (2017) in the study titled ICT Pedagogy for Effective Learning, Education and Quality Evaluation discussed about the various ICT tools adapted by the teachers in teaching pedagogy. As technology has been our integral part we all need to adapt with the new ways of learning to make our learning effective. ICT tools are now a days preferred from primary level to degree level courses. Students can access & gain knowledge about topics of their interest at one click.

Debarun Chakraborty, Soumya Kanti Dhara & Adrinil Santra (2018) conducted the study titled Effectiveness of ICT in Strengthening the Process of Higher Education System in India in West Bengal. The study was conducted in various colleges in west Bengal to understand the four factors availability, usage, knowledge and cost which has impact on usage of ICT. It has been observed that ICT tools plays a very vital role in higher education. It is a key for advanced studies for the learners.

III. RESEARCH OBJECTIVES

The objectives of the present research are:

1. To study & understand the challenges faced by the management teachers of Nagpur city by using the ICT tools.
2. To examine tools used by management teachers in making the teaching learning process more effective for the learners.

3.1 Research Design

In the present research, descriptive research design has been used to describe the objective behind the use of innovative ICT tools by the management teachers of Nagpur city and also to analyze the learning outcome.

3.2 Data Collection

In the present research, primary data is collected to study the information regarding various tools preferred in teaching and the challenges faced by the management teachers in Nagpur city. The data was collected through structured questionnaire.

3.3 Sampling

In the present research the data has been collected from management teachers. For this purpose, convenient sampling technique has been used. For this study a sample size of 50 management teachers from Nagpur city is considered.

IV. UTILIZATION OF VARIOUS ICT TOOLS

In the present study an attempt is made to find the various tools used in teaching pedagogy by the management teachers in Nagpur city. The data was collected through questionnaire technique, where the questionnaire was distributed to respondents through google forms and following results were obtained:

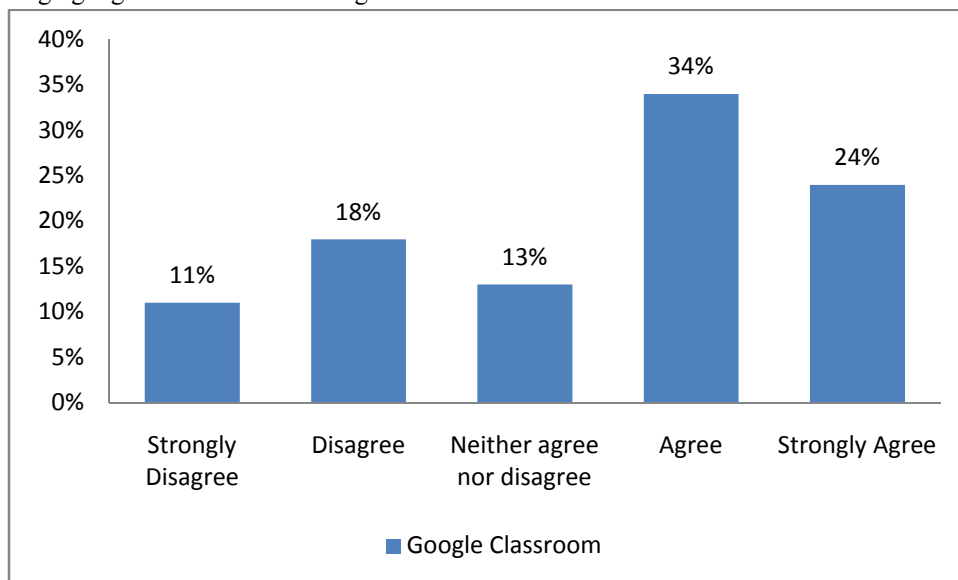


Fig. 1: Utilization of Google Classroom
(Source: Primary Data)

From the above fig. 1 it is found that majority i.e. 34% of the management teachers agree that they use Google-classroom in their teaching methodology for making the learning process an easier way for the students, which is supported by 24% of the teachers who strongly agree to this.

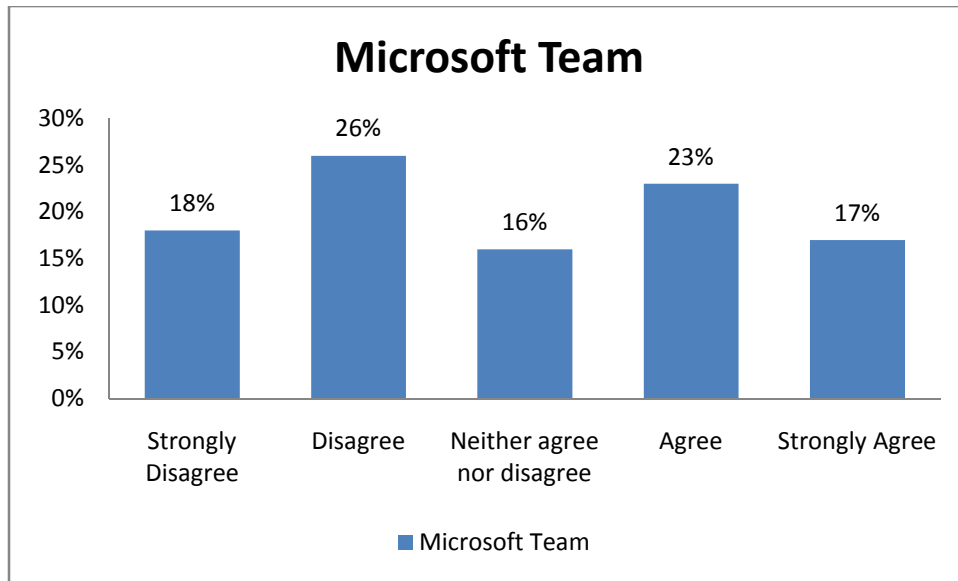


Fig. 2: Utilization of Microsoft Teams
(Source: Primary Data)

According to above figure majority i.e. 26% of the management teachers disagree that they use Microsoft Teams in their teaching methodology for, which is supported by 18% of the teachers who strongly disagree to this. However, 23% teachers agree to this and remaining 17% strongly agree to this.

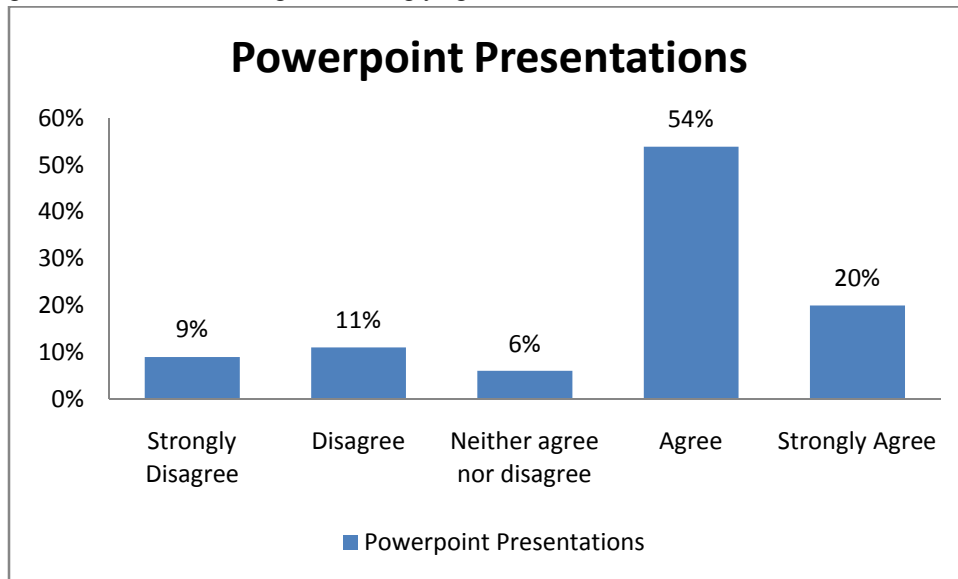


Fig. 3: Utilization of Power point Presentations
(Source: Primary Data)

From the above figure 3 it is found that majority i.e. 54% of the management teachers agree that they use Powerpoint Presentations in their teaching methodology for making the learning process an easier way for the students, which is supported by 20% of the teachers who strongly agree to this. However, very few of the teachers disagree to this.

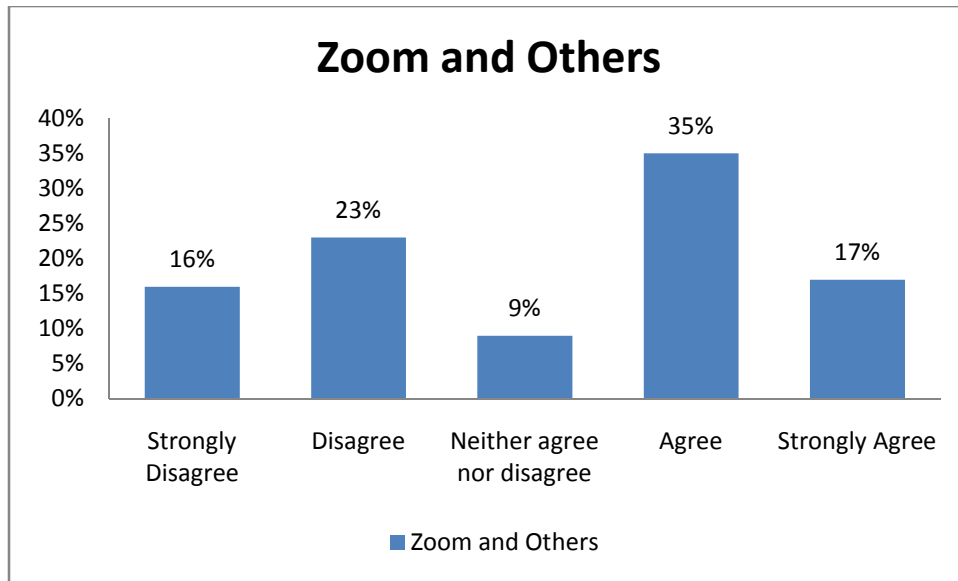


Fig. 4: Utilization of Zoom and other platforms
(Source: Primary Data)

From the above figure 4 it is found that majority i.e. 35% of the management teachers agree that they use Zoom and other platforms in their teaching methodology for making the learning process an easier way for the students, which is supported by 17% of the teachers who strongly agree to this. However, remaining teachers disagree to this.

4.1 Challenges faced by Management Teachers

The respondents were also asked about various challenges faced by them in applying ICT tools to make the teaching and learning process more convenient for the students, where following responses were received:

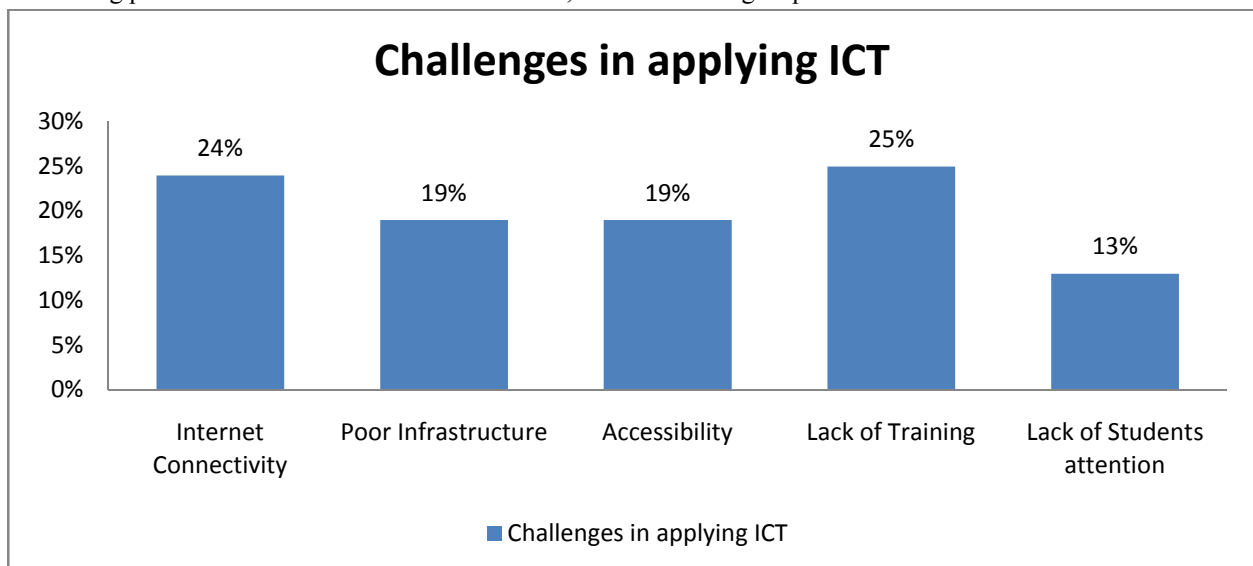


Fig. 5: Challenges in applying ICT
(Source: Primary Data)

From the above figure 5, it is observed that the major challenge faced by management teachers of Nagpur in applying ICT in their teaching learning process is due to lack of proper training in terms of applying and using ICT tools. Another challenge according to 24% of the management teachers is the issue of internet connectivity while teaching online as well as offline classes. As per the opinion of 19% management teachers poor infrastructure and lack of accessibility to the ICT Gadgets by both teachers and students is one of the major challenge in applying ICT. Last but

not least the lack of attention and response from the students is also observed as one of the challenge in applying ICT according to 13% of the respondents.

V. FINDINGS AND CONCLUSIONS

From the above analysis it is found that management teachers of Nagpur are applying four major tools viz., Google Classroom, Powerpoint Presentations, Microsoft Teams and Zoom & other platforms for making the teaching and learning process more effective. Among them Powerpoint presentations was the most popular and Microsoft Teams was the least preferred tool. However, the teachers are facing certain challenges in applying the ICT tools like Internet connectivity, lack of student's response, Accessibility to the tools and poor infrastructure. However, the major issue faced by management teachers of Nagpur is lack of proper training in using the available tools.

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