

POWER POINT PRESENTATION – MODERN TOOL OF TEACHING AND LEARNING

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INTRODUCTION: Microsoft Power Point - It is a program of slide show presentation officially launched on 22.05.1990.

HISTORY: Power Point was originally developed by Bob Gaskins. Initially it was called 'Presenter'. Later it was renamed as PowerPoint.^[1] Personal computers, overhead projectors, mobile phones, internet have been used technologically throughout the world in the class room for delivering lectures.^[2] Studies have shown correlation between teacher's background and attitude to use computers. Clerc and Mohammed found that age of the teacher and years of experience were positively related to the use of computers. But the studies show no correlation between age and predisposition to learn computers.^[3] and ^[4] Regarding gender, males are more favorable to teach computers than the female teachers. Some studies have cited that correlation between the amount of knowledge in computers and positive attitude toward computers.^[5] and ^[6] Sofranova has stated that in spite of having positive attitude towards the use of computers, in Russian schools only 8% of teachers were using computers.^[7]

MATERIALS AND METHODS:

This study was done in three medical colleges they are

1. Siddhartha Medical College, Tumkur, Karnataka, India
2. Nepalgunj Medical College, Chisapani of Banke district, Nepal.
3. Xing Xiang Medical College, Xing Xiang, Henan Province, Republic of China.

After the teaching is over, all the students' opinions were taken. They were asked

1. How much percentage, they have understood by power point presentation?
2. Which method of teachings they preferred the Best?
3. Do they need any other mode of teaching along with power point presentation?
4. Do they need 2D and 3D Animation, video clipping?

These questions were asked in the class rooms to students of Anatomy in Nepal and China. Opinions were noted, classified. Observations were made on students of Anatomy regarding which method of learning that is found easier and to remember either single method or in combination at Siddhartha Medical College, Tumkur, Karnataka State, India.

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OBSERVATIONS:

Sl. No.	College	Prefer only Power point	Prefer traditional way of teaching – Chalk and talk	Prefer both – Power point as well as chalk and talk.
1	Siddhartha Medical College, Tumkur, Karnataka, India	55%	20%	25%
2	Nepalgunj Medical College (NGMC), Chisapani of Bankedistrict, Nepal.	72%	4%	24%
3	Xing Xiang Medical College, Xing Xiang(XXMC), Henan Province, Republic of China	89%	2%	9%

Table 1: Showing percentages of VARIOIUS TYPES response of students at various Medical Colleges

It is observed From the above table, it is observed that, in Republic of China, majority of students (From Nepal and India)prefer power points only (89% in XXMC). Very few students want both (09% in XXMC, China).Power point presentation preferred by the Indian students are 55% in India and 72% by Nepalese students in Nepal. Combination of PPT as learning material as well as old method teaching that is chalk and talk by Indian students were 25% and by Nepalese students are 24% respectively.

DISCUSSION: Previously PowerPoint was designed for presentation and not for teaching but now it has become an important educational tool both for teachers and students in class room. It provides a better means of communication to students. It can enhance teaching by providing roadmap, graphics and other multimedia to make the student understand.^[8] The advantages of using power point in lectures and seminars are :

- Delivering automatic instruction protocols
- Gathering outcome of instructions
- Discussions during class activities
- Sessions of question and answers
- Referring the websites
- Provision for self-study. e.g. Mottley (2003)^[9]
- It is required for either student presentation or group presentation
- To use to build complex visuals either with or without animation

By using screen tip facility text can be added to the image. PowerPoint can also be used where the learning resources is researched, created, and evaluated as a final year research project by the student who wants to combine multimedia with their main area of bioscience.^[9]

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Three studies were done by Attila Szabo and Nigel Hastings to investigate the efficacy of digital PowerPoint lecture in undergraduate class rooms. From the above 3 studies, it has been suggested that efficacy of Power Point lecturing may be case specific rather than universal.^[10]

A study was done by Vikas Seth et al on both medical students and dental students of the second year by asking them to fill 9 items in questionnaire about their perception and analysis was done. The results showed PowerPoint was preferred by 65.33% while 15.16% preferred chalkboard teaching and 19.51% preferred transparencies and overhead projector (TOHP). Among dental students 41.84% preferred chalkboard teaching, 31.21% preferred transparencies and overhead projector (TOHP). Only 25.85% preferred PowerPoint presentations.^[11] The other method of teaching in the classroom is use of overhead projector which can replace a blackboard. It has its own advantage of providing the teachers with limitless surface area and provides him to face his audience. It also provides uninterrupted flow of presentation. The teacher can add or alter the material during presentation.^[12] Use of power point presentation has brought a substantial increase in satisfaction by the students as quoted by Jackson.^[13]

	Medical students study by Vikas Seth et al	Dental students study by Vikas Seth et al	Suresh et al studies done on Medical students studies at Siddhartha Medical College, Tumkur, Karnataka
Power point presentation	65.33%	25.85%	55%
Chalkboard teaching	15.16%	41.84%	20%
Transparencies and overhead projector (TOHP).	19.51%	31.21%	----
Both power point presentation as well as Chalkboard teaching	----	----	25%

Table 2: Showing percentages of incidences by various methods of teaching

From above it is observed that power point teaching & learning is more popular among the medical students of both Vikas Seth et al studies (65.33%) as well as in Suresh et al studies (55%) but less popular among the Dental students by Vikas Seth et al studies (25.85%). In this study, combination of chalk board teaching as well as power point presentation was 25%.

From days of Ramayana and Mahabharata, there were GURUKULAS. In these Gurukulas, teaching was done orally, and knowledge was taught and transferred from generations to generations, only by oral teaching. So knowledge of gurus teaching has attained a paramount importance through orally to their disciples. Later, all the knowledge was taught by writing on leaves of the plant which formed the teaching material and formed the storing materials. So orally teaching and teaching through leaves written was only method of teaching. This was practiced in India there were no teaching materials unlike in the western part of the world.

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As years passed by, there came the use of papers and printing materials. Then came the books where knowledge of Medicine and other subjects were printed and stored in the book. So the books became the learning materials. Later library became the home for learning which has enormous collection of books and has place to read so the text books formed not only learning material but also storage material.

The class rooms with black board became the place and the material for learning through schools and colleges all over the world. Students started appearing for examinations through Boards and Universities and became the graduates. So Chalk and talk became the traditional method of teaching and learning the knowledge both in schools and colleges.

In later part of twentieth century and early of twenty first century, electronic learning material formed revolution in the history of learning through computers. So computers formed the modern method of learning through the Power Point Presentations. It has enormous functions such as typing, storing the material, down loading the already existing materials through Google/web for learning and teaching purpose through power point presentations. It does not produce any dust pollution by the chalk in black board teaching so power point presentation has become popular, time saving most dependent learning material throughout the world.

Present Study: This study has been done in three different medical colleges in the different countries, namely India, Nepal and Republic of China. In all the three medical college Power presentation has attained more popular teaching material among students population In India and Nepal, students wants both chalk and talk as traditional method of teaching as well as modern method of learning through power point presentation. But in China where there were students both from India and Nepal preferred only power presentation due to effectiveness, easy to learn, time saving factor and easy to revise just before examination. But in Nepal and India, students prefer both power point presentation as well as old traditional method of black board teaching.

Students expect the notes for learning. So power point presentation is good for learning in the form of notes which saves time and good for rapid revision both in the class room by the teachers as well as at their desk by the students, but this is not possible in the case of chalk and talk method. Also there will be no dust pollution like chalk powder dust allergy other advantage is students can have colored photographs visual impact in their minds. Most of students also prefer black board teaching because they will come to know how to draw line diagrams regarding how to start the line diagrams and where to end the line diagrams. But this cannot be done in power point presentation during teaching in the class room but may be possible through laptops while preparing for the class.

Hence power point presentation is most popular modern tool of learning and teaching.

Take Home Message: Power point presentation can be used in the class, seminars, conferences and most important teaching materials for the students. Now E-learning has come into existence and become very popular through the world. Hence importance of power point presentation been highlighted, studied and reported. In the present days teaching, 3D/2D animated videos, and e-

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lectures can bring better understanding the deep concepts easily. This can be included along with power point presentation, creates more interests in students for learning any subjects.

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