Impact of ICT on Teaching-Learning Process

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Abstract: Today the modifications added regarding by means of new skill had a significant effect on the lifestyles of humans residing in each and every corner of the globe. Traditional system of teaching and learning in training has been replaced by means of new and rising technologies. Information Technology is having a primary affect on all areas of education- curriculum, techniques of teaching, lecture room gaining knowledge of etc. Rapid conversation with expanded get admission to of Information Technology (ICT) in home, work area and academic institutions has make schooling a life-long process. Information technological know-how helps in merchandising opportunities of know-how sharing for the duration of the world. These can help instructors and college students in gaining up to date statistics and knowledge. For advantageous teaching and gaining knowledge of proper information is necessary. Information technological know-how is a set of equipment that can assist the right people with the proper records at the right time. This paper highlights the significance of IT in academic sector, effect of IT on lecture room teaching, blessings and disadvantages of IT.

Keywords: Information Technology, Teaching-learning process, Communication, Internet, Computer

I.   INTRODUCTION

Today knowledge and data are the fundamental keys of obtaining the output, rivalry, capital and relieve. So people have targeted on procedures for obtaining better excellence of teaching. Education in the twenty first century is the centre from which all adjustments and trends arise. Today ICT has the ability of facilitating the educating and getting to know process. ICT is referred to the consciousness manner and its making use of methods, processing, transferring and making data in development ICT consists of assembly, organizing, storing, publishing and using the information in the structure of resonance, image graphics, textual, numeric, through using the pc and telecommunication. Important changes ensuing from ICT, has grew to become the supply of root changes in the course. The most important modifications have roots in this truth that science has enabled college students to accent the out-of-class information and this has induced the amplify of their motivations for learning. Information Technology has affected modified to the methods, purpose and perceived manageable of education. Information science can furnish fundamental academic records when needed. Technology is certain to rule our present and our future. This is an escapable reality that we need to face. It has ruled over one-of-a-kind aspects of our lifestyles and influenced the way we live.

Computers and the Internet science in particular have certainly revolutionized the area of education. It performs a vital role in this field. The scholar teacher interaction has appreciably modified due to the fact the introduction of technological know-how primarily based type structure. The teacher is no longer the centre of the lecture room but alternatively a intermediary between facts and student. Instead of a being passive listener, the students now come to be energetic in gaining, rearranging and showing information.

Need of the study

Both education and getting to know is lifestyles time processes, they have no restrict of when to start and stop. Learning helps in gaining new experiences in our daily life, consequently altering our way of thinking, living and judging human behaviour. Through training students are getting a range of sorts of information. Information technological know-how has the capability of dashing up facts shipping so this potential can be used in enhancing teaching-learning environment. Both instructors and college students are the usage of quite a number applied sciences to acquire unique tutorial goals. Information technologies have reduced the cost of education. For example the increased use of internet broadband makes it easy for college students to get right of entry to academic information on time. Also instructors use this broadband net to create and supply data the use of videos and photograph illustrations. It enables instructors and students to communicate with each other thru electronic email. Information technological know-how speeds the switch and distribution of information. Through online examinations students are getting tiers which make them match for higher employment. Today academic establishments submit their outcomes online so students want now not have to wait for lengthy to be aware of about their performance. IT additionally allows team discussion. Information technological know-how has changed the way pupil learns via introduction of audio-visual methods in

education. It reaches to the individuals, businesses and masses, privileged or unprivileged thru its media or means. Information Technology can help the teachers, learners, researchers, administrators, and instructional planners to get admission to valuable treasure of knowledge, ability and application for improving their very own tasks. Distance learning, digital classrooms, e-learning and m-learning are the brand new ideas and developments that are rising in educational horizon of our country.

II. OBJECTIVES

The existing study has the following objectives-

Obj. 1: To know the significance of Information Technology in educational sector.
Obj. 2: To know the effect on of Information Technology on study room teaching.
Obj. 3: To understand the predominant blessings of Information Technology.
Obj. 4: To understand the primary dangers of Information Technology.

III. METHODOLOGY

The statistics of this qualitative find out about was once collected from secondary source like exclusive research journals, books, websites etc.

Findings:
According to the goals of the find out about findings are mentioned below-

Obj. 1: To recognize the significance of Information Technology in educational sector. Today IT serves as a beneficial tool in bettering the instructing abilities and learning ability. Audio-visual training can be without difficulty furnished with the assist of IT. Computer is a useful tool in all areas of teaching-learning. Multi-media technologies are used in schools, faculties to talk thoughts between students and teachers. Today technology-base education is workable at the universities of developed countries. Smart colleges have made a soar in virtual learning. On-line studying and remote education are amongst new training varieties in the new century. By evolving the gaining knowledge of environments at the starting of 21st century, people and societies put heavy responsibility on the shoulder of educational establishments and their common buildings with the aid of their increasing want of education. Today a number informational and communicational technologies have the potential of facilitating the training and gaining knowledge of process. Also there is proof stating that data technologies furnish positive and rigid methods for professionally growing teachers.

Now a day IT allows team teaching. Students are using mobile, recording, play again system, movement pictures, film-strips, television, audio-tapes, and records, educating machines, computer systems and video-discs to communicate and showing information. Online library serving a beneficial purpose for each teachers and college students in gaining plenty of information. As section of the IT curriculum, novices are prompted to regard computers as equipment to be used in all aspects of their studies. In particular, they want to make use of the new multimedia technologies to talk ideas, describe projects, and order records in their work. This requires them to choose the medium great perfect to conveying their message, to shape facts in a hierarchical manner, and to hyperlink collectively facts to produce a multidimensional document.

Information Technology plays a necessary position in creating rural schooling gadget in India as properly as it ensures cognizance among the rural populace about the importance of education. Rural faculties nowadays are additionally using e-learning applied sciences like audio and video conferencing for providing education to students. Computers are viewed as an asset.

These are primary draw to convey students to the school. Computer is a very interesting useful resource for training of rural children. Students residing in rural areas are receiving Computer Assisted Instruction via collective efforts of government. Drop-out costs has been reduced to a brilliant extent through laptop aided education. EDUSAT are providing video education in rural areas. EDUSAT are launched via ISRO. Samudaya a scheme- below these program 2000 kids are taught English, Science, Social Science and Mathematics via technology. Using the identical technique 250 instructors used to be skilled and the outcome used to be really positive. It enormously decreased the college drop-outs rate, absenteeism and at the identical time expanded the degree of confidence.

Obj. 2: To recognize the have an effect on of Information Technology on school room teaching.
IT has a very huge impact on classroom-learning. Most of the colleges now a day's deliver know-how and statistics with teaching aids like slide projector, over-head projector and LCD projector. Sometimes audio-visual tapes, floppy disks and CD-ROMS are additionally used via teachers to grant coaching on a range of disciplines. Computers play a important function in developing studying material. Besides this, other types of data such as clipart, animation,

graphics, music, voice and stay interplay makes the classroom educating very effective. The use of multi-media laptop serves a fruitful motive for education person student. Compared to TV it helps to manipulate the response of preparation transfer manner according to the greedy capacity of the rookies so as to make purposive and scenario specific interface with the available facts package. This creates an identical situation to the school room on pc monitor except attractive a instructor and the given bundle can be browsed again and again by means of the learner to healthy with his or her own mastering process.

Today billions of college students are the use of internet. Through Google, MSN or Yahoo students can get a range of sorts of records with surprising click on of a mouse. Internet has decreased the fee of buying books. It allows students to download books and gaining knowledge of substances from one of a kind websites, alongside with movies, games, photos and so on which help in their all spherical development. Besides these, the net provides beneficial opportunities for college students to get admission to electronic libraries, eBook catalogues, scientific documents, and educational works. It also helps teachers, professors, and research students to post their articles, journals on websites. Launching the web in the lecture rooms approves teachers to use online resources, instructional videos, programs, visible aids and so on.

Internet additionally serves the opportunity of digital school rooms which is web-based surroundings that permits students to take part in existence coaching events without the want to travel. Students hear lectures, ask questions, and acquire remarks simply as they do in conventional classroom. Student can function it from anywhere if he or she has internet connection. Thus it additionally serves the motive distance education. The Internet in well-known and the World Wide Web in unique are vital enablers of both formal and casual education.

Information Technology has introduced about modern adjustments in the schooling of youth with different needs. Modern computer science has opened the gates for study room communication, education of the kids like visible impaired, listening to impaired, mastering disabled, etc. It permits teens with visible impairment to use Braille computers to take notes and tests in the category and prepare assignments and paper at home. An exclusive apparatus named Cranmer Abacus helps them to examine wide variety standards and function calculations.

Telecommunication units (TDD) are used for college students with hearing impairments. Other technological aids encompass cochlear implants, listening to aids, assistive listening devices, alerting devices, television and movie captioning and text telephones which facilitate the instructing gaining knowledge of things to do of these young people in the classroom.

Hyper-text technology is used for teens with gaining knowledge of disabilities as they can't follow textual content book like their everyday peers. They additionally take the help of hypermedia science to listen, watch, discover and search special information. Sometimes talking books, recorded text and lectures are also used in school room for imparting instruction to adolescents with disabilities.

Obj. 3: To recognize the primary blessings of Information Technology. The important benefits of Information Technology (ICT) are:

➢ **Benefits for students:-**

a) Promotes unbiased mastering for the students-Students can analyse from their personal besides the help of mother and father and teachers. They are simply going to surf the internet in order to appear for the lessons they need to study. Quick accessibility and nicely outfitted with capabilities and expertise in running a computer would be very useful for the students.

b) Easier get admission to information- Through computer systems college students can get a big amount of information. They do now not have to depend continually on books and category lectures. The statistics they want is easily accessed on computer.

c) Promotes thrilling way to train students- Since there are videos, images and other graphs and textual content located in computer more students would feel the exhilaration in studying thru the use of gadget. This motivates college students for studying.

d) Accessibility and wider participation- The emergence of online lessons opens doorways to many college students who could now not otherwise participate in educational settings due to time and economic limitations. Online publications provide the non-traditional college students the threat to go back to school and improve their lives according to their personal schedule.

e) Prepares college students for the future- From the way technological advancements are going it will be apparent that the future will be digital and technological know-how focused. Well versed use of technologies will help college students in collaborating, communicating, competing and discovering higher jobs in future.

f) Co-operative learning- The web enables co-operative learning, encourages dialogue, and creates a greater engaging classroom. For e.g. a LISTSER V will enable students to get worried in classification discussions thru e-mails in a way which is not possible within the 4 walls of the classroom.

g) Locating lookup materials- There are many more sources on the web which a university or a university library can't provide. Students pursuing higher education can use these assets of net for their lookup work.

h) Acquiring varied writing skills- Internet helps college students to increase their hypertext skills. These capabilities help students to achieve experience in non-sequential writings.

➢ **Benefits to teachers:**
a) IT facilitates sharing of resources, know-how and advice.
b) It ensures larger flexibility for teachers for carrying out one-of-a-kind types of venture at different times.
c) IT promotes skills, self-belief and enthusiasm of instructors through a range of teaching techniques.
d) It helps teachers in easier planning, instruction of training and designing of teaching getting to know materials.
e) Through graphics, pix and PPT teachers can current the cloth in greater interesting and eye-catching ways.
f) Teacher can guide and assist college students in looking the qualitative material.
g) Students examine through interactive technologies and teacher enables them on how to use and replicate responses. He may additionally be diagnosing mastering troubles and assisting students in discovering their solutions.
h) By using modern-day technological gadgets teachers can extend their know-how and improve their expert teaching skills.

Obj. 4: To recognize the most important dangers of Information Technology.

The fundamental disadvantages of Information Technology (IT) are:

a. **Results in lack of hobby in studying-** As the whole thing is now available or through data saved in a pc or cellular devices, it develops negative study habits and lazy attitude amongst college students through education. Now day's students are greater established on internet rather of their books and enter from the teachers.
b. **Discover unusual matters in the computer-** Internet do now not constantly help students in search of things that are valuable for them. There are several matters found in the net that are not true for students. As a result pupil might also lead to incorrect path.
c. **Hindrances academic performance-** Instead of the usage of their laptops and tablets for their research and on line take a look at college students more frequently go to social networking websites which may decrease their tutorial performance.
d. **Expensive-** The IT services are not reachable in the schools. Most of the faculties are now not in a function to afford the purchase, maintenance and different expenditure concerned in its use. The value of laptops, Wi-Fi broadband projector for example contributes a large proportion of the school budget.
e. There is a vast lack of awareness about the use, applications and benefits of IT on the phase of teachers, head of the organization and educational authorities accountable for bringing enhancement in the functioning of the school mainly related to educating learning and corporation of co-curricular activities with the help of such technologies.
f. Today's instructors are not well-equipped with contemporary use of technology. There is a splendid paucity of such competent and professional teachers who can use and combine proper science in a fantastic manner for high quality integration of IT in dealing with faculty curriculum bringing preferred change in the behaviour of the learners.
g. The prescribed curriculum in schools, schools and university, the examination and comparison system, the handy instructional material and the infrastructure are now not in a role to furnish suited assist for the use and software of IT in the instructing mastering process and other useful things to do for the benefit of the pupil.
h. Lastly it can be stated that training delivered on line or through digital assets decrease the face-to-face interplay between trainer and pupil that presents a more private experience.

IV. CONCLUSION

Information science helps teachers and freshmen to participate cooperatively in the educating gaining knowledge of process. It broadens their thinking, knowledge and allows them to function more than a few educational activities in the instructional sector. Various sorts of technologies both hardware and software program makes the teaching-learning method greater interesting. Use of the advanced technologies has a exquisite scope in enhancing the products and tactics of education. It fulfils many wishes and requirements of the present age in the subject of preparation and schooling like individualization of instruction, utilization of multi-sensory and multi-media aid material and environment friendly and fantastic management of exclusive educational institutions. Information applied sciences guide teaching mastering technique in greater productive fashion. Now the instructor guides the beginners in their study, taking part in the position of a educate or mentor. Now the position of instructor has been modified from centre of instruction in traditional classrooms. He decides contents, experiences, activities, locates the assets and publications newcomers how to have get entry to and utilize the information for required outcomes.

The future of education is not predetermined with the aid of modern-day data technology however as a substitute than this future will hinge prominently on how we construct the place of technology. It was once found that still faculty requires help to enable them to efficiently use the technology to the advantage of their students. This help have to be supplied through the institutions. Today web serves as an asset in providing global facts to thousands and thousands of learners, instructors and administrators. So launching the net in lecture rooms as well as administrative areas extensively enhances the possibilities of modern schooling and lets in human beings to use online database resources.

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