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Information and Communication Technology in Integration in Teacher Education in Inda: Enhance Teaching and Learning

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Abstract:

Everyone desires the feeling of being cared for and encouraged to move ahead. The same is the case with the students; for better academic achievement, educators are their ladders. A healthy student-teacher relation solves most of the learning problems of students. If there is a gap between these relations, the learning efficiency is affected, and as the gap increases, the teaching-learning process gets disturbed. Hence it is important to recognize the challenges in this path and find remedies to overcome them.

Keywords: Computer, Educational Technology, Internet, Teachers Training, Technology Enhance Learning, Information and Communication Technology. Student Teacher relationship, Teaching-learning process, Online Education.

Introduction:

Education is as old as the first man on earth and is the link between an individual's past and future. This truth cannot be denied that the future of the society lies in the hands of next generation and this success can be achieved only by imparting quality education. Education has seen a radical growth in the last century and many areas of science and technology, arts and commerce have seen the expansion. Hence as an educator there is need for updating oneself to provide the complete knowledge to the students Education is not the name of excelling in academics and obtaining the highest degree but is a social process of disseminating knowledge in the form of teaching and learning. The process of education should completely focus on the physical and intellectual development of a person, nurturing their moral values, and developing them in a manner to maintain

The educational field has innumerable interventions which are intended to improve the learning outcomes of a student. Educationists who occupy the central dogma of imparting education play an essential role in a student's life by designing students' learning process. As per the indications from research, amongst the many qualities, wisdom and motivational skills bridge the gap between students and their achievements, making them realize their actual potential. Therefore it is essential that the educators recognize their influence on their student's life and always find ways to improvise their relations with the student fraternity. The role of the educator plays a vital role in bridging the gap between the student and the teacher. This chapter deals with the student-teacher relationship, its importance and challenges in building a healthy

student-teacher relationship, which will motivate the students and help them come closer towards their achievements.

Objective of The Study:

The researchers has framed in the following objectives of the present study:

- 1. To Study Need Of ICT Integration in Teacher Education.
- 2. To Study Approaches to Integration of ICT in Teacher Education.
- 3. To Study Revolutionary by ICT in Teacher Education.
- 4. To Study Factor Affecting Information and communication Technology integration of learning.
- 5. To Study ICT Integration in Teacher Education in india.

Need of ICT Integration In Teacher Education:

Both in -service and pre- service teacher professional development occurs through ICT in 21st century.

- To develop standard teaching content ICT help students as well as teachers.
- ICT help to better use of integration software and hardware for teaching and learning.
- ICT helps to create effective classroom by using Animated video, HSP, YouTube etc.
- Its help to interact with teachers and students to bridging the gap between students and teachers
- ICT helps in teacher in education to introduce in pre-service teacher education, strategies and methods.

Number of the tools are used such as kohot, Google Classroom , and different strategies used to helps in practice teaching .

During pandemic situation we all realized that I CT was the only option every one to do everything

- ICT helps teachers to create better environment for developing in any fields of education.
- ICT requires to promote the acquisition of skills and knowledge for new students to become lifelong learners.
- It also helps teachers to juggle in various responsibilities like attendance maintenance ,and developing academic content, monitoring student progress and and much more
- ICT tools by teachers for in- service training and teachers have undergone the teacher revolution in last decade.
- it allows teacher to be imaginative, flexible, and willing to renew for learning outcome.
- in -service and pre- service training should be in pedagogical analysis, involved ICTs presenting the content new techniques evolution.
- Accessibility and availability of technology should be cost-effective for all level of teachers
- Professional competencies to promote ICT's into teaching and learning process are continues process.

Approaches to Integration of ICT in Teacher Education:-

Integration and use of ICT in teacher education program is a important topic in field of education. These approaches will be beneficial for developing the integration of ICT Pre -service level which will be helpful to reconstruct the situation. These are approaches are :-

Integrated Approach:

This aims at planning the use of ICT within the subject to enhance skill and improve pupils achievement.

ICT Pedagogy Approach:

ICT skills in respective subjects focus the integrating subject. This approach is beneficial to extend the skill of enhancing ICT knowledge to underlining pedagogy and allowed students to developing developed and maintain the skill of content end of designing class room based resources.

Subject -Specific Approach:

By this method teachers and experts are not exhibit learner to new or innovative away to learning teaching about are providing with the practical understanding.

Enhance Approach: This focus of the use of an ICT resource will enhance the existing subject matter through subject aspect of the lesson and task.

Competency Approach:

The Approach aims to use resource and empower the students learning. By enabling them in improve their classroom works.

Revelation by ICT in Teacher Education:

Teacher Education is means of providing teachers with the necessary skill and knowledge for their professional growth . Teacher Education is a career of teaching in India. Pre- service education mainly focused on preparing students for their career and skills development and in service Teacher training that mainly focus on their professional growth and development. The focus of Teacher Education Institutions has shifted to more to provide teachers with solid understanding with each other .A range newly initiative he professional development progress using ICT has been begin to emerge in in recent scenario. In India education professional development Pre-service service teacher education of previous primary to higher education level through the potential. f ICT make the best quality of content and accessibility and other various digital platform like DIKSHA, NISHTHA, SWAYAM, MOOCs, Course Private tech players like "Project Shiksha "and "Dell Aarambh" for teachers training make digital flagship programs..ICT has not only helped in revolution it also helps in administrative processes of various teachers training institution in our country UNESCO's integration of ICTs and their implication of teacher education program are mainly support high quality teaching learning.

Factor Affecting Technology Integration Of and Learning:

Technology is an intregal part of our daily There are several factors that affect in implementation of technology integrated in teacher education .Poor infrastructure, lack of sufficient tools, Professional growth self - efficacy of teacher perception of teachers will discussion as factors that effective technology in integrated learning. Personal factor are often teaching is essential for element in implementing of curriculum success. As teachers apply technology in their teaching method, these provide this personal factor of teaching. As teacher supply technology in their method materials and digital technology .If new technology are introduced they are not last of long to learn . So, there are things that need to be done and initial and perception of teachers in positive way introducing training and workshops and seminars.

Professional Factor:

There are reasons why teachers are confident in using technology in the classroom situations . Teachers capability influence that materials the resources, gained in training in the present situation .As teacher became more involved in changing technology. Therefore even needs and orientation assessment on technology integration may fully utilize technology. With the help of some researchers who know experience in teaching in teaching did directly .But many research reported that professional factor like teacher experienced is a very important factor in Teacher Education to provide teacher-student needs and perceived this .The use of ICT implying that teachers ICT is skills and successful implementation is complex and not clear prediction of ICT integrations .The continue support of good practice and greatest in determined the success of ICT integration.

Problem In Integration Of ICT In Teacher Education:-

The teacher education institution in India now understand the problems potential of digital technologies and trying the their best .Some common issue of to be overcome for the success integration

- technical issues are focused, but pedagogical use of technology not focused
- many institutions in rural area in India lack basic facility or electricity And Internet making teachers delay on textbook beliefs.
- Lack of digital literacy and adequate training about the use of technology in the learning process makes difficult to use technology in classroom
- Poor connectivity in rural area and remote area they are inaccessible.
- Lack of integration in ICT based materials and design or curriculum, courses planing.
- Student Teachers have not knowledge about the new technology used in classroom. In present teacher education institution is based on the traditional away of content in educational technology in teacher education
- Structure of innovation institution in which with the support of ICT extremely weak
- Inefficient time and content to use their ICT skill in was another constant in integration ICT in teacher education.
- 'Copyright' is a major issue in ICU integration
- Lack of inappropriate software used in the field of education.

ICT Integration in Teacher Education in India:

In 21st century all over world as well as India was changing in and present scenario we can see science and technology can every aspect of teaching now every approach is changing from centered to student centered or child centered. In present situation we can see the development of ICT in teacher education outside the classroom .It is necessary that continue have training and retaining the order play their role make education system more effective and meaningful .The knowledge of ICT required pre service training in a program because integrated technology help you know world of technology in better a way of applying the future. The most value to be lifelong with training and retaining .Now the days ICT increase at an amazing rate in instruction among the teachers. ICT highly regarded by many countries including India integrated ICT in teacher education is a complex task due to dynamic and changing nature rapid a development and the prevalence of ICT transfer human society from the in information technology knowledge. It's includes using personal use of ICT instruction as a tool of teaching we know that the progress of any country depend on upon the quality of education system and it's practice. In early Vedic age Indian education and known as Gurukul system .Day by day Indian education system under undergone various stages and phases started in the vedic period two present situation as a professional teacher education is a production of interaction policies and agendas of professional institution and organization This need to change teacher or play the key player are in using ICT in Daily classroom .It prepares students for current digital era. Learners engaged with ICT tools, equipment and web 2.0 tools to enable them coconstruct with their own learning .The last millennium makes quit difference from students.

Teacher Education is carry out their professional growth .It is essential and exercise that enhanced the skill of teaching and learning .A range of newly initiative professional development program using ICT he has been emerge in recent years ,offering the following:-

- A great variety of hands a greater chance of revolution
- high quality of exercise and accessibility of teachers
- Flexible to select program and take them at one's own pace
- Online mentoring, reflection interaction with each other's .

The focus of teacher education institution has shifted to more to providing solid understanding ,skills and knowledge of the various media and constant . Thus understanding of a technology determined the future of education and also empower teachers and to use technology and create effective teaching learning environment .For their adequate time and we allowed for teachers.

Conclusion:

Information and communication Technology(ICT) devices and systems have been spread extensively in each work and a broad scope of affiliations. ICT has improved the library organizations more than the standard one and now become the customers' interest similarly as relationship to fulfil the essentials on time. With the use of ICT, library specialists work has been changed, changing totally. Advancement is a need these days, and we ought to be ready for it. Watchmen need their children to graduate with capacities that set them up to either track down another profession in the current business place or advance to more raised degrees of tutoring and planning. Organizations enlist strong labourers, instructed, prepared to reason, pass on, choose, and learn. The Department of Education and other government associations see the main occupation of development in 21st-century preparation. Advancement is an adaptable and huge instrument for instructing and learning, and transforming into a way of life. Curiously, educators ought to be set up to use these headways effectively. Schools can use development satisfactorily, and for the public authority help of understudies, instructors and society, it ought to be done. In substance, ICT is irrefutably critical in this 21st century-old age and with the proper use, the benefits will surpass the cutoff points. Understudies do require receptiveness to ICT to ensure that they are being prepared for this current reality. Instructors can offer understudies the capacities and motivation to show that learning can be interminable with ICT examination. Schools now comprehend that the workforce will demand abilities in ICT, and the instructive arrangement on offer would now have the option to help understudies be more prepared for when they leave the classroom.

In the present interconnected world, information and correspondence development (ICT) is widely used by our country and impacts our lives every day. It gives extraordinary impact in guidance for the understudies and educators. ICT has become a crucial driver in preparing courses similarly as it has been recognized by an extent of the broader benefits of ICT on learning. The constructive outcome of ICT on understudies' capacities and participation are included. The practicality of extended teachers is teachers; they advancement. The paper has perceived that upgrade makes them extraordinary unfavourable results favourable educating and learning of science. Regardless, these unfriendly outcomes can be overpowered by improving the teachers' ability in development and ensuring that understudies are fittingly coordinated as they interface with advancement.

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