TRANSFORMING PARADIGMS OF EDUCATION: EXPLORING ODISHA'S 5T MODEL AND ITS EMPHASIS ON E-LEARNING

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ABSTRACT
The education landscape in Odisha, like many other regions globally, has witnessed a significant transformation in recent years. 5T model of education started with the objective to transform the governance system of education, which will essentially bring academic excellence, quality education, accountability, transparency and capacity building of students and teachers. This paper aims to explore the implementation of the 5T Model of education in Odisha and its role in leveraging digital platforms to enhance education. It aims to examine the strategies to contextualize the 5T Model within the governance of educational settings, emphasizing e-learning and online learning. Additionally, it seeks to identify and address challenges associated with the implementation of the 5T Model, offering insights into how these challenges can be overcome to facilitate its successful adoption in Odisha's educational system.
Keywords: Education, Odisha, 5T Model, E-Learning, Transformation

Introduction
Education is the cornerstone of societal progress and individual development which is underscored by the United Nations' fourth Sustainable Development Goal. The Indian and state governments have taken several structural and procedural steps, policy interventions, and initiatives to establish an inclusive environment and provide needed facilities and opportunities for educational development, and economic and social progress with a special focus on technology integration. In response to these critical mandates and the challenges posed in the sphere of education, the government of Odisha, a major state in India embarked on an innovative journey with the introduction of the 5T model of governance. This transformative model, built upon the pillars of Teamwork, Technology, Transformation, and Time, holds the promise of revolutionizing education in the state. Panda (2022) aptly commended Odisha's 5T initiative, recognizing it as a vital step towards achieving universal access to equitable quality education. Emerging studies support this view, portraying the 5T model as a beacon of hope in the pursuit of equipping learners with the essential skills demanded by the 21st century (Day and Halder, 2014). In this article, an attempt has been made to explore the paradigm-shifting by the 5T model of education and its special emphasis on e-learning and online education.

Objectives Of The Study
The objectives of the study are:
1. To study the ways to contextualize the 5T Model and its e-learning and online practices in school education.
2. To study the issues and challenges in the 5T Model of education with respect to e-learning and online learning.

Methodology
The study is based on resources available in open digital forms such as journals, research articles, magazines and authentic websites and explored from government documents. The Descriptive method was used to compile the content-based data and present the report.

5T Model of Education
The 5T teaching and learning model is a relatively recent innovation in education introduced in Odisha. 5T is

an acronym for Teamwork, Technology, Transparency, Transformation and Time. The main vision of 5T is to achieve academic excellence, providing equitable inclusive quality education, effective administration, management and capacity building of students and teachers through the implementation of Transparency, Teamwork, Technology, Transformation and Time in the field of school education and higher education. It is a highly individualized and collective teaching and governance model that focuses on preparing highly qualified, efficient, competent and effective teachers. It is a true teaching and learning model, offering a range of opportunities for e-learning and online education to develop teachers' and learners' teaching and learning skills in a beautiful learner- and study-friendly environment, as well as access to all basic and advanced facilities of e-learning and online education (Panda, 2022 & Das, 2022). Each phase of the 5T action plan from the point of view of contextualizing in school education and higher education are as follows,

Figure 1: Components of 5T Model of Education
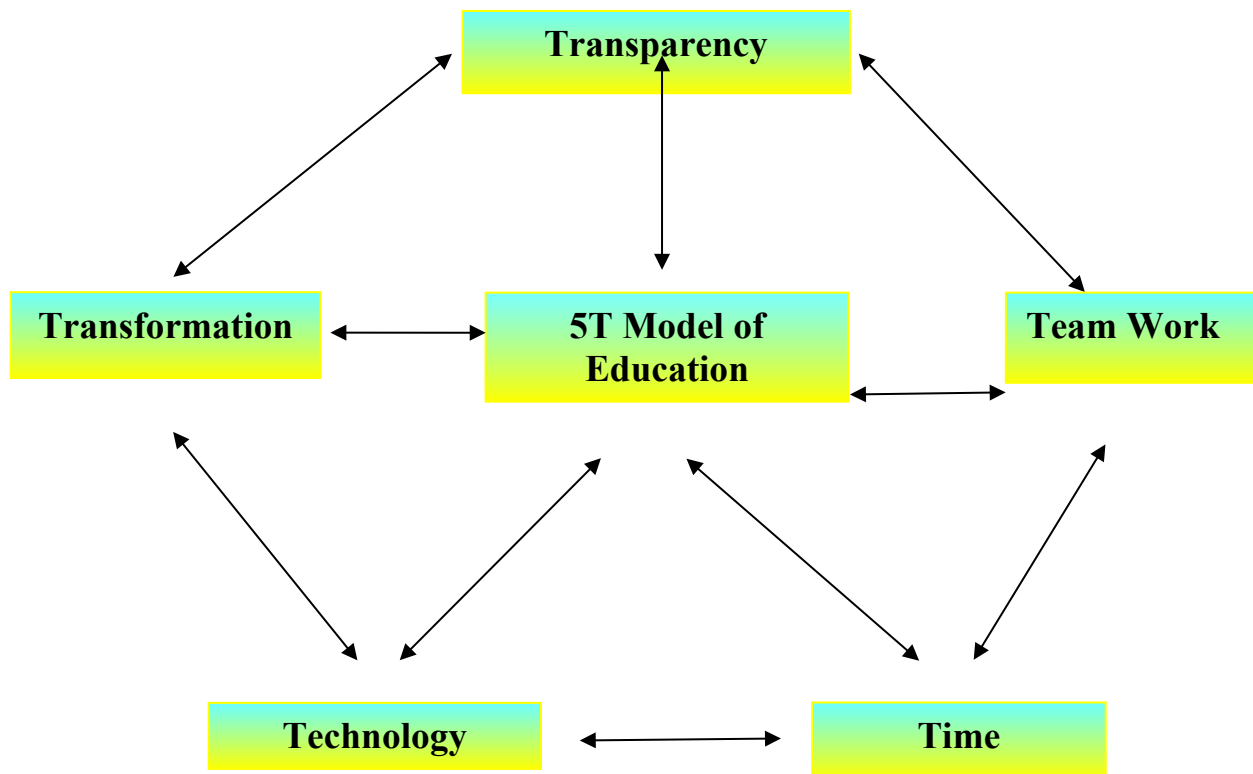
Transparency: This is the most important dimension of 5T in accelerating quality education. The teachers are encouraged to make teaching transparent through the use of online and e-learning materials in their teaching. They must have clarity in his/her goals and accordingly select the right learning materials and transact it to students. The teacher needs to be clear about what he/she wants to develop and expect from each individual child and give each learner the same age regardless of their differences. The teacher should maintain transparency using e-learning in assessing and evaluating each and every learner. The teacher must use a variety of transparent tools and techniques in assessment and evaluation. The teacher not only focuses on the scholastic aspects of the learners but also on the co-scholastic areas. They need to focus on assessing each and every aspect of the learners for their overall development. School leaders and staff should provide transparency in maintaining school quality and standards, for which maintaining an effective relationship and coordination between staff and other educational stakeholders is essential.

Teamwork: This is the second most important dimension of 5T Model. In order to achieve the goals, we need to work together with love and collaboration is key to success. Each member of the institution works collaboratively as a chain every person is connected and has a role in achieving the goal. We need a strong foundation and connection like bricks and cement for building any building. Likewise in schools, both teaching and non-teaching personnel have equal roles to play. The head of the institution should not be autocratic but become flexible with each and every member, the head must treat every member with love, sympathy and honesty like a leader.

Technology: The third and most important dimension is technology. In 5T the top priority area is technology, the schools need to shift from the traditional chalk-and-talk method of teaching and learning to technology-based e-learning and online teaching and learning. Teachers need to use new and innovative technological teaching tools. Meanwhile, the teacher must not forget the importance of our ancient learning culture. Online and Blended modes of assessing and evaluating learners should be the top priority. At present, the Odisha government transforming the old traditional school classrooms into smart classrooms under this 5T model. Both in-school and out-of-school teaching and learning materials should be based on technology.

Transformation: The fourth major dimension is transformation, which encompasses the radical changes in education through the physical transformation of school buildings into smart schools, infrastructural changes from school desks to all facilities, and the development of a healthy, hygienic, learner-friendly and learner-friendly 5T school environment to facilitate learning. In order to facilitate changes in teaching methods and strategies, promote digital learning and online education, usher in a radical transformation in the roles of both teachers and learners and deliver positive effects on learning, educational transformation encompasses a comprehensive shift that includes changes in pedagogy and the learning process. Teachers are encouraged to transform their teaching and pedagogical skills through the use of technology to facilitate the learning process of teaching.

Time: The penultimate important dimension of the 5T educational model is time. Proper planning, preparation, management and supervision are required to complete the task and achieve the goal of teaching and learning on time. Therefore, the teachers are instructed to prepare the lesson plan and divide the lesson into daily, weekly, monthly, yearly basis and seasonal basis; teachers should write the lesson plan regularly and set a time limit for each task in order to effectively complete the lesson task on time. Adequate supervision is carried out timely to monitor the teacher's work, time intervals and school attendance. Teachers use various new, innovative methods and strategies for teaching and providing learning experiences so that the curriculum is successfully transacted in time. Setting both short-term and long-term goals, creating a flexible and systematic educational system, defining specific objectives and time frames, promoting collaboration between students, teachers, and stakeholders, utilizing feedback mechanisms to achieve educational goals, implementing quality management, control, and effective monitoring are the essential components of effective time management in 5T model of education.

Digital Transformation in Education Through 5T Approach

The 5T Model of Education represents a significant shift in the field of education, bringing about a number of advantages that transform traditional classroom approaches. A more convenient, efficient, and effective learning environment is provided by 5T smart classrooms, which are furnished with e-learning and online education resources. These cutting-edge settings simplify the teaching-learning process and eliminate complexity, creating motivated and engaged students. One of the main benefits emphasized by Panda (2022) in the article "Sikhya Byabastha O Sthiti" is the creation of a beautiful and learner-friendly environment that promotes pleasant teaching-learning. This paradigm also encourages teachers and students to embrace technology, fostering independence and self-assisted learning abilities. The 5T Model also promotes the growth of students' creativity, inventiveness, and untapped skills through technologically driven resources including well-equipped labs and electronic libraries. It also encourages collaboration, curiosity, and attentiveness through multifarious activities within and outside the school. Importantly, it addresses diversity and inclusion by enabling students who are at risk or have differing abilities to succeed in mainstream classrooms with their peers. In addition to this, it encourages the teaching of universal principles, as well as moral and constitutional education, and it expands access to educational opportunities in underserved and underdeveloped regions. In addition to offering counselling and counselling programmes for students and facilitating capacity growth through orientation and training, the 5T Model places a high emphasis on teacher and institutional integrity. In an inclusive setting, it reimagines courses to meet the needs of all students, including those with special needs. In essence, the 5T Model of Education brings a holistic transformation to the education landscape, making the teaching-learning process more effective, flexible, and technologically advanced. It equips students with a broad range of skills, knowledge, and competencies, fostering creativity, critical thinking, and a passion for learning in a modern, intelligent, and dynamic educational setting.

Discussion

Proper care and education are the fundamental rights of every child and a gateway to other rights (Karande and Kulkarni, 2005). For imparting quality education to schools' government of India has taken initiatives including Sarva Shiksha Abhiyan (2001), implementation of the Right to Education Act-2009, Rashtriya Madhyamik Sikhya Abhiyan (2009), Rashtriya Uchchatar Shiksha Abhiyan (2013), Smagra Shiksha Abhiyan (2018-19) and in spite of all the efforts "Education for all'' still remains a distant dream for many children in

India (Karande and Kulkarni, 2005). The first education policy of the 21st century the New Education Policy 2020 also focuses on providing equitable inclusive quality education to all from school education to higher education based on the foundational pillars of Access, Quality, Equity, Affordability and Accountability and equip the learners with the knowledge, skill and competencies that are needed to meet the needs and challenges of 21st century successfully. In the present context, the focus of education is shifting from traditional method education to constructive education in order to equip the learners with required knowledge, competencies and skills through inquiry-based education, experiential education, competency-based education and collaborative inclusive equitable quality education to promote each student's holistic development in academic as well as non-academic areas (NEP, 2020). In support of this government of Odisha amidst COVID-19, created history by starting an innovative initiative programme of 5T school transformation aimed at providing equitable inclusive quality education in a learner-friendly environment with all resource support. On his fifth term as Chief Minister Sri Naveen Pattanaik with the active supervision of V. K. Pandian, Secretary to Chief Minister (5T), on the occasion of the State-level Panchayati Raj Diwas on 05 March 2020 with the dream of empowering Odisha launched the 5T initiative programme (action plan for School Education and Higher Education). These five ingredients constitute the core element which is essential for providing quality equitable education and for its effective management and governance (Panda, 2020., Das, 2022 & Otv, 2022). In Vision 5T, Government of Orissa (2022), Chief Minister of Odisha Shri Naveen Patnaik, while explaining the 5T Charter, said: "I am forever grateful for the trust that people place in us. I would like to reiterate the three Ts of governance: Teamwork, Transparency, Transformation, and Technology. Add the fifth dimension - time. Time is of utmost importance. Today's youth are in a hurry - if we get international recognition in FANI, it will be for a timely evacuation. If we could complete the Asian Athletics Championships in 90 days. If only we could get 30, 0000 more women to join the Mission Shakti. In 15 days, I would like to introduce KALIA's efforts, which are highly evaluated nationwide. If we could ground near-universal coverage called Biju Swasthya Kalyan Yojana within 30 days. This is the place people want from their governance model. Today we have approved in principle the Part Manifesto as a government priority. 365 days later – on May 29, 2020, we will announce the results and achievements to the people. We know that some promises take time. I would like the Council of Ministers to do their best in this regard. We are currently going towards a brand-new, empowered Odisha where poverty was a thing of the past. Empowered Odisha – where women become equal partners in growth and development. Empowered Odisha – where our youthful dreams come true. The world should know that Orissa's time has come and our time begins now". NITI Aayog (2017) endorses the Odisha Government's 5T Charter stating that Odisha has adopted the 5T program to transform the education system, achieving the goal of all children having access to education in an age-appropriate classes and learning in a favourable, supportive, and engaging school environment. Panda (2020) also highlights in the article "*Sikhya Byabastha O Sthiti*" that the 5T initiative is the most remarkable welcoming step of the Odisha government, and it will ultimately lead towards the development of the education system in the state. Day-by-day in the state schools seem like a movement from scatter plots to butterflies. It helps in a new and constructive way in accelerating students to learn in a new and constructive way which helps in holistic development of school and learners. Some schools under 5T are well developed, transformed, and well equipped with infrastructure and other facilities with beautiful learner-friendly environments, other hand other schools are in a destructive situation and are neglected. Also emphasizes phase-wise transformation of other rest schools. At the district level collectors and other competent retired teachers and authorities need to be sensitized to make a committee which will assist the teachers by going to schools to give proper guidance and training. Initiatives need to be taken for awarding skilled and competent teachers for their contributions. Schools including primary need to be included in the 5T school transformation, it will ultimately bring a revolutionary change in the education system. Das (2022) appreciated the Odisha government's Mo Sarakar initiative under which 5T implementation should bring a drastic change in developing an education system in which every learner feels empowered and gets equitable good quality education and emphasizes this 5T initiative needs to be implemented in different sectors such as education, telecom, cyber security, public grievance redress, tourism, investment, trade, land records and disaster management.

Issues and Challenges in e-learning and online education through the 5T Model
Within the framework of the 5T Model of education, there exist a multitude of serious issues and constraints that necessitate solutions in order to achieve its effective implementation. Primarily, there exist concerns over the physical and mental well-being of students. Prolonged exposure to screens and insufficient illumination might give rise to health-related complications, such as ocular discomfort, and could contribute to decreased student involvement as a consequence of monotony. In addition, the rapid adoption of the 5T Model frequently overshadows conventional instructional approaches, potentially resulting in a dilution of educational identity. One of the primary obstacles is the veracity of digitized educational resources. The proliferation of inaccurate information is facilitated by the uncertain credibility of internet resources, which has the potential to mislead

those seeking knowledge. The abundance of online information sources can be overwhelming for both students and instructors, leading to challenges in curriculum management and generating misunderstanding. Technological challenges provide a substantial barrier as well. Fragile equipment, such as lighting systems, may be susceptible to damage, resulting in significant expenses associated with maintenance. Furthermore, it should be noted that not all students or educators possess the requisite knowledge and expertise to effectively utilize technology, and this deficiency in technological competence might potentially serve as a source of distraction. Over-dependence on technology might result in the development of passive learners who are unable to effectively demonstrate their true capabilities and talents. Moreover, it is plausible that excessive usage of technology might contribute to the development of technology addiction, hence leading to behavioural issues that impede the expression of innate capabilities. The financial dimension of the 5T Model presents an additional challenge since it necessitates significant expenditures in terms of training, equipment, and materials. Proper resource management, particularly in terms of utilization and upkeep, demands specific knowledge and abilities. In a technologically driven educational setting, the presence of communication gaps between learners and teachers can be exacerbated, leading to a perceived lack of authenticity and less engagement in the learning process. Moreover, an excessive focus on technology might potentially result in the disregard of conventional pedagogical approaches. The 5T Model of education has significant opportunities for enriching learning experiences, but it also presents a multitude of concerns and obstacles. It is important to acknowledge and tackle the aforementioned obstacles, including health-related issues, the vulnerability of technology, and the necessity for adequate training, in order to fully exploit the advantages of technology in the realm of education and establish a well-rounded and efficient learning milieu.

Conclusion

The 5T initiative of the Odisha Government is a very important, innovative, welcome step in accelerating growth, development, achievement of academic excellence in education, and effective management, administration, supervision and capacity building of teachers and students. 5T is a philosophical and network-based concept that requires continuous interaction in and between the 5T components, namely transparency, technology, teamwork and time, contributing to a radical transformation in education by creating opportunities for equitable and quality inclusive education for all bids. It is an excellent and innovative model for building skills, boosting confidence and offering a variety of experiences with special emphasis on developing competencies, creativity and constructive thinking of teachers and learners, helping teachers to enhance learning through the use of multiple ways of teaching, learning, assessing and evaluating the learners. It is also an effective, inclusive transformation and governance model with an efficient management, monitoring, monitoring and feedback mechanism to ensure better delivery of public education services.

Recommendations

5T model can be used in pre-service and in-service teacher education programmes to improve the knowledge, competencies, and pedagogical teaching abilities and skills of teachers. It can be applied in the education sector to provide quality education at all levels, including nursery, primary, upper primary, secondary, and higher secondary schools, colleges, and universities in both rural and urban locations phase-wise. 5T may be proactive in designing and selecting content, courses, selection of learning experiences, organizing content, organizing learning experiences and selecting and using assessment, evaluation devices and feedback mechanisms in the field of education. It can aid in boosting enrollment, lowering illiteracy rates, and decreasing learners' dropout rates. It can be applied in providing vocational training and technical education to learners. Steps should be taken to break down social and physical barriers in schools by creating a beautiful, conducive learner and learning-friendly environment, nurturing national identity, and fellow feeling, and fostering the development of constitutional, moral, ethical, and spiritual values through the implementation of 5T in schools and colleges. Additionally, this model can be applied in a variety of fields, including medicine, rural development, housing, skill development, tourism, cyber security, security services, telecom, public grievance redress, investment, trade, industrial development, sports, mining, road development, heritage conservation, disaster management, agriculture, food security, trade, land records, and many more.

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