



## **Analytical Study of Efforts Made for the Continuous Professional Development (CPD) in Technical Skill of Teachers**

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**Abstract:** The rapid integration of technology in education has necessitated a parallel evolution in teachers' professional capabilities, especially in technical skills. This analytical study examines efforts made for the continuous professional development (CPD) in technical skills of teachers. Drawing on a review of educational policies, programs, and initiatives, this study explores the evolution of CPD in technical skills post-independence in India, the significance of technology skills for quality teaching, recent programs and courses for professional development in technology skills, and recommendations from the top five countries. The analysis highlights the importance of CPD in enhancing teaching effectiveness and student outcomes, as well as the challenges and successes in implementation. The study concludes with implications for policy and practice, emphasizing the need for a holistic approach to CPD that addresses infrastructure, resources, and teacher support, and suggests areas for future research to further enhance CPD in technical skills of teachers.

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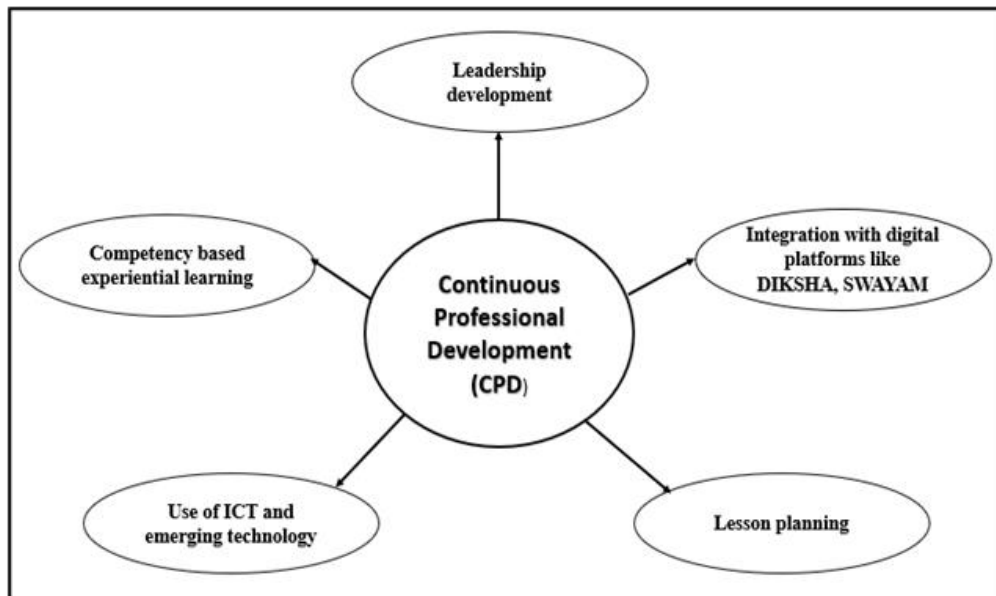
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### **Keywords:**

Continuous Professional Development (CPD), Technical Skills, Teacher's Training, Educational Policies.

## **Introduction**

Teachers are central to the educational process, significantly influencing student achievement and long-term success. To support and improve instructional quality, Continuous Professional Development (CPD) has become an essential element.<sup>1</sup> CPD involves a sustained process through which Teachers enhance and refresh their knowledge, skills, and teaching practices by engaging in diverse professional learning opportunities.<sup>2</sup> The increasing integration of Information and Communication Technology (ICT) in education has made it essential for teachers to consistently enhance their technical skills. Continuous Professional Development (CPD) plays a vital role in ensuring that Teachers stay proficient in using modern technologies. This paper seeks to examine the initiatives and strategies implemented to improve teachers' technical capabilities through ongoing professional development programs.



**Fig: Components of Continuous Professional Development**

Source: Self developed

- **Background of the Study**

The field of education is undergoing constant change, driven by technological innovations, shifting pedagogical approaches, and new insights from research on effective teaching strategies. To adapt to these developments and continually enhance their teaching effectiveness, Teachers must engage in Continuous Professional Development (CPD).<sup>3</sup> CPD encompasses a variety of professional learning activities, including training programs, workshops, seminars, conferences, online courses, and collaborative learning with peers.<sup>4</sup> Furthermore, action research plays an important role in CPD, offering teachers the opportunity to critically examine and improve their own instructional practices.

- **Research Question**

- Why technological skill essential for ensuring quality and effective teaching in the modern educational environment?
- What recommendation for continuous professional development (CPD) programs in technical skills have been proposed by top five internationally recognized countries in education?

- **Significance of Continuous Professional Development for Teachers**

The significance of CPD for teachers cannot be overstated. Research has shown that effective CPD can lead to improved student outcomes, including higher academic achievement and increased engagement.<sup>5</sup> Additionally, CPD can enhance teacher motivation, job satisfaction, and retention. Moreover, CPD enables teachers to adapt to changing educational environments and cater to the diverse needs of students.

### Research Objectives

- To study different recommendations given by the various educational commissions and policies post-independence in India.
- To study the necessity of technology skills for quality and effective teaching.
- To study the latest programs that were designed for continuous professional development in technology skills of teachers.
- To study continuous professional development program recommendations given by the top five best countries on the international forum.

## Review Literature

Over the years, the understanding of Continuous Professional Development (CPD) has grown far beyond the old model of occasional workshops or one-off training sessions. Today, CPD is seen as a dynamic, ongoing process. At its heart, CPD refers to the intentional and continuous efforts teachers make to expand their knowledge, sharpen their skills, and nurture the personal qualities needed to carry out their professional responsibilities throughout their careers (Lindqvist et al., 2024). This perspective moves away from isolated training events and focuses instead on sustained and structured professional growth.

- **Richit et al., (2021).** Modern frameworks for CPD recognize that developing as a teacher involves several key elements, not just acquiring basic knowledge for teaching, but also growing professionally over time, engaging in meaningful learning experiences, and most importantly, adapting and evolving classroom practices. In this broader view, professional development becomes a deliberate effort to bring about real change in how teachers teach, how they think, and how their students learn.
- **Gast et al. (2017), Lindqvist et al. (2024).** One of the most significant shifts in recent years has been the move towards collaborative and community-based models of CPD. Rather than working in isolation, teachers are increasingly learning through team-based conversations, shared experiences, and joint problem-solving. This kind of professional growth happens naturally in communities of practice, where everyday collaboration is supported by both social interaction and digital tools.
- **Saud et al., 2024.** Alongside collaboration, self-directed learning has become a central piece of today's CPD puzzle. Teachers are no longer seen as passive recipients of knowledge—they are active agents in their own learning, driven by motivation, curiosity, and a desire to. This approach allows educators to reflect deeply, identify their own areas of need, and steer their development in ways that are most meaningful and relevant to their personal and professional context.
- **Stein et al., (1999), Germanos et al. (2024).** CPD models also acknowledge that professional development isn't just about learning new content or instructional strategies. It's about cultivating a mindset of reflection and continuous inquiry. Teachers are encouraged to go beyond surface-level improvements and engage in critical thinking about their beliefs, assumptions, and teaching habits. This idea of the "reflective practitioner" has become a cornerstone of effective CPD, helping educators grow not just in what they know, but in how they think and act as professionals.
- **Smagulova et al. (2021).** The emergence of digital competence as a core professional requirement has fundamentally transformed approaches to teacher professional development. Digital competence is defined as teachers' proficiency in applying ICT in professional practice with awareness of their implications for learning strategies. This conceptualization extends beyond simple technical skills to encompass a comprehensive understanding of how digital technologies can enhance pedagogical effectiveness. Research reveals that the provision of teachers' pedagogical and technical support to apply digital technologies effectively becomes a decisive factor in developing teachers' digital competences.
- **Amir & Kaur, (2023).** A critical finding across multiple studies is that training focused solely on ICT tools usage is insufficient for effective integration. Most teachers lack the pedagogical skill to use ICT in the teaching-learning process because they have not received enough opportunities for comprehensive training, leading to reluctance in adopting new technologies.
- **Mohseni et al. (2024).** Recent research suggests that teachers' professional development should encompass digital/technical and pedagogical skills in addition to content knowledge in their discipline. This aligns with findings that effective professional development must address the scarcity of pedagogical understanding that contributes to challenges teachers face in updating their curriculum with technology.

## Research Methodology

### Research Design

This analytical review paper implies a descriptive study method, synthesizing findings from empirical studies, policy reports, and theoretical work related to the continuous professional development (CPD) technical skills development for teachers

### Data Collection

- **Sources:** Peer-reviewed journals, educational databases (ERIC, PubMed, Google Scholar), conference proceedings, and institutional reports.
- **Inclusion Criteria:** Studies focused on continuous professional development (CPD) programs of teachers for their technical skills.

## Research Findings

### Historical Overview of Educational Commissions and Policies in India

#### • Evolution of Educational Policies Post-Independence

Since attaining independence in 1947, India has introduced numerous transformative reforms in its education system. One of the earliest and most influential efforts was the establishment of the University Education Commission in 1948, commonly referred to as the Radhakrishnan Commission, which played a foundational role in shaping higher education in the country.<sup>14</sup>

Later, the National Education Commission of 1964, widely known as the Kothari Commission, emphasized the necessity of universal elementary education and promoted a comprehensive educational framework centered on the all-round development of individuals.<sup>14</sup>

During the 1980s and 1990s, several key policy measures were launched, including the National Policy on Education in 1986 and the Programme of Action in 1992, both of which were designed to improve access to education while ensuring quality and equity across the system.<sup>15,16</sup>

#### • Impact on Teacher Training and Professional Development

These educational policies had a significant impact on teacher training and professional development in India. For instance, the National Policy on Education (1986) emphasized the need for continuous professional development of teachers and the establishment of State Councils of Educational Research and Training (SCERTs) and DIETs (District Institute of Education and Training) to oversee teacher training programs.

In a similar vein, the Programme of Action (1992) emphasized the significance of in-service teacher training and the incorporation of innovative instructional techniques.<sup>17</sup> These measures were designed to strengthen teaching effectiveness and positively influence student learning outcomes.

### Recommendations for Continuous Professional Development in Technical Skills

#### • Analysis of Recommendations from Various Educational Commissions and Policies

Various educational commissions and policies in India have recognized the need for Continuous Professional Development (CPD) to strengthen teachers' technical competencies. The Kothari Commission (1964) advocated for the inclusion of hands-on training and vocational education within teacher preparation programs, aiming to align teaching skills with the demands of a modern, technology-driven workforce. The National Policy on Education (1986) further underscored the importance of ongoing in-service training to help Teachers continually upgrade their technical knowledge and stay current with advancements in their subject areas (Government of India, 1986). Likewise, the Rashtriya Madhyamik Shiksha Abhiyan (RMSA) focused on enhancing the quality of secondary education by offering technical training opportunities to teachers.<sup>17</sup> The NEP 2020 places strong emphasis on CPD as a key strategy for improving the quality of education and ensuring that teachers remain motivated, skilled, and future-ready.

#### • Implementation Challenges and Successes

Although various policies have recommended Continuous Professional Development (CPD) in technical skills, the actual execution of such programs has encountered numerous obstacles. A significant barrier is the inadequate infrastructure and limited resources in many educational institutions, which hampers the delivery of effective technical training. Numerous schools across India still lack the necessary technological tools and modern equipment essential for hands-on learning.<sup>18</sup>

Another major concern is the shortage of experienced trainers and domain experts capable of delivering high-quality technical instruction. This shortage has created a disconnect between the skills imparted during training and the practical competencies required in classroom implementation.

Nevertheless, there have been notable advancements in this area. For instance, the introduction of the Rashtriya Madhyamik Shiksha Abhiyan (RMSA) has resulted in a growing number of teachers receiving technical training (Government of India, n.d.). In addition, initiatives like the National Skill Development Corporation (NSDC) have made significant contributions by enhancing teachers' technical capabilities through structured training programs.<sup>19</sup>

### **Necessity of Technology Skills for Quality Teaching**

- **Importance of Technology Skills in the Modern Classroom**

In the current digital era, technology has become an integral part of improving both teaching methods and student learning experiences. Teachers who are proficient in using technological tools are more capable of engaging learners, encouraging interactive participation, and fostering a more stimulating and responsive classroom atmosphere.<sup>20</sup> Beyond content delivery, technological competence enables teachers to promote essential skills such as critical thinking, collaboration, and creativity among students.<sup>21</sup>

Furthermore, the integration of technology in education allows for the creation of individualized learning experiences and ensures access to a wide variety of digital instructional content.<sup>16</sup> Teachers who are proficient in technological tools can modify their teaching approaches to suit students' varied learning preferences and abilities, thus fostering a more inclusive and supportive classroom environment.<sup>23</sup>

- **Studies Highlighting the Impact of Technology on Teaching Effectiveness**

Numerous studies have demonstrated the positive impact of technology on teaching effectiveness. For example, a study by Hew and Brush<sup>24</sup> found that teachers who effectively integrate technology into their instruction enhance student engagement and improve learning outcomes. Similarly, a meta-analysis conducted by Tamim et al.<sup>25</sup> concluded that technology integration positively influences student achievement across various subjects and grade levels.

Technology significantly contributes to enhancing teacher efficiency by reducing the burden of administrative tasks and offering instant access to student performance data for evaluation and feedback.<sup>26</sup> Teachers who are adept using technological tools can effectively track academic progress, identify learning gaps, and modify their instructional methods to meet the diverse needs of learners. The incorporation of ICT has the potential to not only inspire but also motivate students in their learning pursuits.

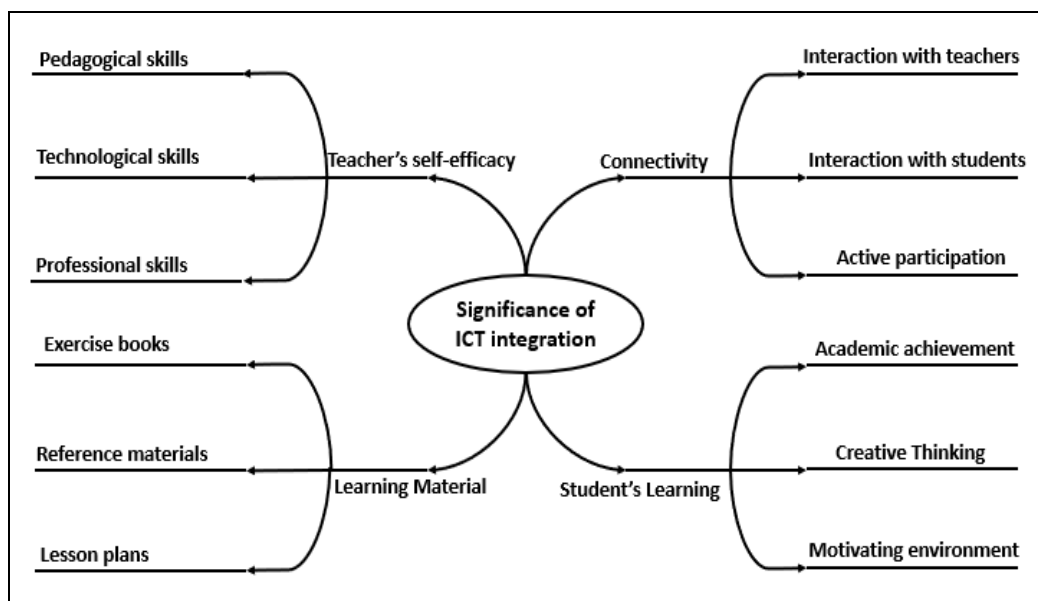
### **Latest Programs for Professional Development in Technology Skills**

- **Overview of Recent Initiatives in India**

In recent times, India has seen a notable increase in efforts to strengthen teachers' technological capabilities. The National Council of Educational Research and Training (NCERT) has introduced various online training programs aimed at helping Teachers incorporate technology into their teaching practices.<sup>27</sup> These programs encompass subjects such as digital literacy, the use of educational applications, and strategies for effective online instruction.

The Government of India's Ministry of Education has introduced the National Initiative for School Heads' and Teachers' Holistic Advancement (NISHTA) to support Teachers' professional growth. A key feature of this initiative is its focus on training teachers to effectively integrate Information and Communication Technology (ICT) into classroom instruction. By equipping Teachers with digital teaching strategies, the program aims to improve both instructional quality and student learning experiences.

Research indicates that the inclusion of ICT in education positively influences the teaching-learning process. There is also a recognized link between a teacher's ability to use technology and their combined understanding of pedagogy, content, and digital tools—commonly referred to as TPACK (Technological Pedagogical and Content Knowledge). Supporting this, a study conducted by Abbasi and colleagues revealed that many teachers are receptive to using digital tools in their lesson planning and that a teacher's level of technological competence is closely related to how frequently and effectively they incorporate technology into their teaching methods.



**Fig: Significance of Information and Communication Technology Integration**

Image source: <https://tinyurl.com/4hywudhk>

#### • **Case Studies of Successful Programs**

Under NITI Aayog's Atal Innovation mission and run by Learning Link foundation, Atal Tinkering Lab teachers were trained. The goal is to enable project-based learning focused on sustainability, innovation and critical thinking. The program, running since 2023, continues to guide teachers in mentoring students-led initiatives recognized at district and state level.

#### **Continuous Professional Development Program Recommendations from Top Five Countries**

##### • **Comparison of Programs from Leading Countries**

Several nations are widely acknowledged for implementing effective and forward-thinking continuous professional development (CPD) programs for Teachers. A comparative overview of the top five countries showcases notable commonalities as well as unique approaches:

- **Finland:** Finnish CPD emphasizes peer collaboration, reflective teaching, and research-informed practices. Teachers have considerable freedom to shape their own professional learning journeys, which are guided by the national curriculum framework.
- **Singapore:** In Singapore, lifelong learning is a core principle of teacher development. The system prioritizes structured mentoring and coaching, ensuring that professional growth remains aligned with evolving national educational goals. Programs are routinely reviewed to maintain their relevance.
- **Canada:** Canada follows a decentralized model, where individual provinces and territories oversee teacher development initiatives. These programs often emphasize equity, cultural diversity, and Indigenous knowledge, reflecting the country's commitment to inclusion within a multicultural context.
- **Australia:** Australian CPD frameworks prioritize technological advancement and innovation. Teachers are encouraged to develop digital competencies and often collaborate with professional learning communities and industry stakeholders to stay current with educational trends.
- **United States:** In the U.S., professional development structures differ by state and district, but there is a growing focus on tailoring learning to individual teacher needs. Competency-based models and leadership development are gaining traction, with programs increasingly designed to encourage instructional creativity and innovation.

- **Lessons for India's Education System**

India can adopt valuable insights from the professional development initiatives implemented in other countries. First, it is important to cultivate a mindset of lifelong learning and self-reflection among Teachers. Second, professional development efforts must be closely aligned with national educational goals and undergo regular evaluation to maintain their relevance and impact. Third, embracing innovation and integrating technology into training programs is essential to equip teachers for the evolving demands of contemporary classrooms. Lastly, CPD initiatives should emphasize inclusivity, respect for diversity, and cultural sensitivity to effectively address the varied needs of students from different backgrounds.

### Conclusion

- **Overview of Main Findings**

The analysis of continuous professional development (CPD) initiatives for Teachers uncovers several important themes. First, CPD is a foundational component in elevating teaching standards and boosting student learning outcomes. Effective CPD models often emphasize professional collaboration, reflective teaching methods, and innovative practices. The growing role of digital technology in CPD has enabled customized training experiences and modernized teaching methodologies. Moreover, aligning CPD programs with national education goals and conducting regular assessments are crucial to maintaining their impact and relevance.

- **Implications for Educational Policy and Practice in India**

The findings offer several actionable insights for shaping policy and guiding implementation in the Indian education system. Primarily, it is essential to treat CPD as a strategic priority and allocate adequate funding and support systems for its integration. Professional development efforts must be responsive to the varying needs of teachers from different backgrounds, disciplines, and regions. Embracing technology as a tool within CPD programs can enhance teacher effectiveness and learner engagement. Lastly, creating systems for continuous review and feedback will help ensure that CPD programs achieve meaningful and measurable outcomes.

- **Recommendations for Future Research**

There are multiple directions in which future research on CPD could be expanded. One key area involves investigating the direct impact of teacher professional development on student academic performance, especially within Indian schools. Another valuable focus could be the exploration of alternative CPD formats, such as digital learning environments, game-based modules, and peer-mentoring models. Comparative studies across global education systems can also provide insights into diverse CPD practices. Furthermore, long-term studies are needed to understand how sustained professional development influences teacher satisfaction, instructional quality, and workforce retention.

- **Conclusion**

Continuous learning opportunities for teachers are crucial for advancing instructional quality and boosting student achievement. Through the implementation of thoughtfully designed, tech-supported, and context-appropriate professional development programs that align with national education strategies, India can equip its teachers to navigate the evolving demands of modern education and promote an inclusive, engaging classroom environment.

### References

1. Darling-Hammond, L., Hyler, M. E., Gardner, M. (2017). *Effective Teacher Professional Development*. Palo Alto, CA: Learning Policy Institute. <https://doi.org/10.54300/122.311>.
2. Schlager, M. S., Fusarelli, L. D., & Schank, P. K. (2002). Cornerstones for a coherent reform agenda. *Journal of Staff Development*, 23(4), 36–40. <https://doi.org/10.1109/44.735857>
3. OECD. (2019). *Teachers as learners: The role of initial teacher training and continuing professional development in education*. OECD Publishing. <https://tinyurl.com/3sxmaxyu>
4. Guskey, T. R. (2000). *Evaluating professional development*. Corwin Press. <https://tinyurl.com/2wvht2we>
5. Desimone, L. M. (2009). Improving impact studies of teachers' professional development: Toward better conceptualizations and measures. *Educational Researcher*, 38(3), 181-199. <https://tinyurl.com/5n74x655>

6. Richit, A., Da Ponte, J.P., & Tomasi, A.P. (2021). Aspects of Professional Collaboration in a Lesson Study. *International Electronic Journal of Mathematics Education*, 16, em0637. DOI:10.29333/IEJME/10904
7. Lindqvist, M.H., Mozelius, P., & Sundgren, M. (2024). Building a network for collaborative support in professional development. *Networked Learning Conference*. DOI:10.54337/nlc.v12.8643
8. Gast, I., Schildkamp, K., & van der Veen, J.T. (2017). Team-Based Professional Development Interventions in Higher Education: A Systematic Review. *Review of Educational Research*, 87, 736 - 767. DOI:10.3102/0034654317704306
9. Saud, M.S., & Mahara, K.K. (2024). Exploring the Factors Influencing the Professional Development of Secondary English Language Teachers. *English Language Teaching Perspectives*. DOI:10.3126/eltp.v9i1-2.68718
10. Stein, M.K., Smith, M.S., & Silver, E.A. (1999). The Development of Professional Developers: Learning to Assist Teachers in New Settings in New Ways. *Harvard Educational Review*, 69, 237-269. DOI:10.17763/HAER.69.3.H2267130727V6878
11. Smagulova, G.Z., Sarzhanova, G.B., Tleuzhanova, G.K., & Stanciu, N. (2021). The development of future foreign language teachers' digital competences in creating multimedia tutorials. *The Education and science journal*. DOI:10.17853/1994-5639-2021-6-216-245
12. Amir, A. (2023). A Holistic Model for Disciplinary Professional Development—Overcoming the Disciplinary Barriers to Implementing ICT in Teaching. *Education Sciences*. DOI:10.3390/educsci13111093
13. Mohseni, Z.(., Masiello, I., Martins, R.M., & Nordmark, S. (2024). Visual Learning Analytics for Educational Interventions in Primary and Secondary Schools: A Scoping Review. *J. Learn. Anal.*, 11, 91-111. DOI:10.18608/jla.2024.8309
14. Hargreaves, A., & Fullan, M. (2012). Professional capital: Transforming teaching in every school. Teachers College Press. 1234 Amsterdam Avenue, New York, NY 10027. Tel: 800-575-6566; Fax: 802-864-7626; e-mail: tcp.orders@aidcvr.com; Web site: <http://www.tcpress.com>.
15. Government of India. (1948). Report of the University Education Commission (1948). Ministry of Education. <https://tinyurl.com/fxb3424r>
16. Government of India. (1964). Report of the Education Commission (1964-66). Ministry of Education. <https://tinyurl.com/m9vwh23f>
17. Government of India. (1986). National Policy on Education (1986). Ministry of Human Resource Development. [https://ncert.nic.in/pdf/nep/Policy\\_1986\\_eng.pdf](https://ncert.nic.in/pdf/nep/Policy_1986_eng.pdf)
18. Government of India. (1992). Programme of Action (1992). Ministry of Human Resource Development. <https://tinyurl.com/ye269bpc>
19. Government of India. (n.d.). Rashtriya Madhyamik Shiksha Abhiyan (RMSA). Ministry of Human Resource Development. <https://tinyurl.com/56crw7r>
20. UNESCO. (2016). Education for people and planet: Creating sustainable futures for all. UNESCO Publishing. <https://tinyurl.com/hvt45ymu>
21. NSDC. (n.d.). National Skill Development Corporation. Retrieved from <https://www.nsdcindia.org/>
22. Ertmer, P. A. (2005). Teacher pedagogical beliefs: The final frontier in our quest for technology integration? *Educational Technology Research and Development*, 53(4), 25-39. <https://tinyurl.com/349af7ax>
23. Harris, J., & Hofer, M. (2009). Technological pedagogical content knowledge (TPACK) in action: A descriptive study of secondary teachers' curriculum-based, technology-related instructional planning. *Journal of Research on Technology in Education*, 43, 211-229. <http://dx.doi.org/10.1080/15391523.2011.10782570>
24. Papert, S. (1993). The children's machine: Rethinking school in the age of the computer. Basic Books. <https://tinyurl.com/ymvahepj>

25. Roblyer, M. D., & Edwards, J. (2000). Integrating educational technology into teaching. Prentice Hall. <https://tinyurl.com/mry9ed65>
26. Hew, K. F., & Brush, T. (2007). Integrating technology into K-12 teaching and learning: Current knowledge gaps and recommendations for future research. *Educational Technology Research and Development*, 55(3), 223-252. <https://tinyurl.com/bwsj8jtj>
27. Tamim, R. M., Bernard, R. M., Borokhovski, E., Abrami, P. C., & Schmid, R. F. (2011). What forty years of research says about the impact of technology on learning: A second-order meta-analysis and validation study. *Review of Educational Research*, 81(1), 4-28. <https://tinyurl.com/4ps467bb>
28. Gulek, J. C., & Demirtas, H. (2005). Learning with technology: The impact of laptop use on student achievement. *Journal of Technology, Learning, and Assessment*, 3(2), 1-42. <https://tinyurl.com/2mba2bev>
29. Means, B., Toyama, Y., Murphy, R., Bakia, M., & Jones, K. (2009). Evaluation of evidence-based practices in online learning: A meta-analysis and review of online learning studies. US Department of Education. <https://tinyurl.com/bdd4jbu9>
30. NCERT. (n.d.). National Council of Educational Research and Training. Retrieved from <https://ncert.nic.in/>
31. Azim Premji Foundation. (n.d.). Teacher Professional Development Program. Retrieved from <https://azimpremjiuniversity.edu.in/courses/specialisation:teacher-education>
32. Sahlberg, P. (2015). Finnish lessons 2.0: What can the world learn from educational change in Finland? Teachers College Press. [https://books.google.co.in/books?id=py7r-7Lz-w4C&pg=PA1&source=gbs\\_toc\\_r&cad=2#v=onepage&q&f=false](https://books.google.co.in/books?id=py7r-7Lz-w4C&pg=PA1&source=gbs_toc_r&cad=2#v=onepage&q&f=false)
33. MOE. (2020). Continuing professional development. Ministry of Education, Singapore. Retrieved from <https://www.moe.gov.sg/education/continuing-professional-development>
34. CMEC. (2015). Teacher learning and development: A framework for professional growth. Council of Ministers of Education, Canada. Retrieved from <https://www.cmec.ca/Publications/Lists/Publications/Attachments/354/Teacher-Learning-and-Development-A-Framework-for-Professional-Growth.pdf>
35. AITSL. (2020). Australian professional standards for teachers. Australian Institute for Teaching and School Leadership. Retrieved from <https://www.aitsl.edu.au/teach/standards>
36. NCTAF. (2016). What matters now: A new compact for teaching and learning. National Commission on Teaching & America's Future. Retrieved from <https://nctaf.org/wp-content/uploads/2017/04/NCTAF-Commission-Report-2016.pdf>.

